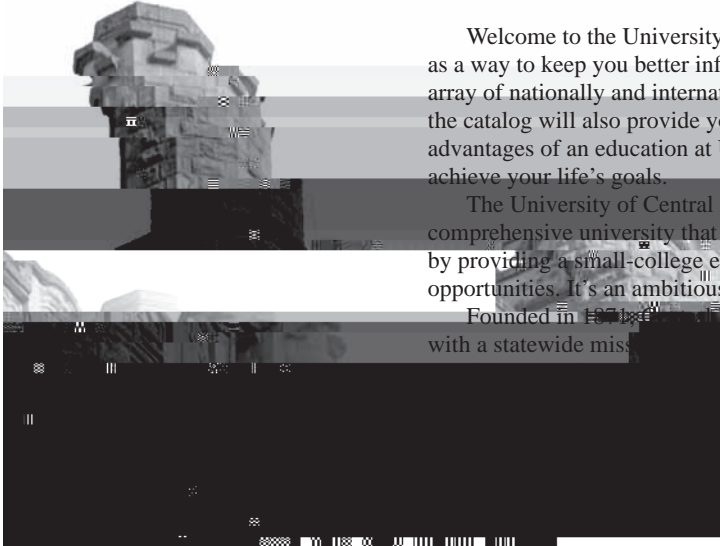


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## ee n



Welcome to the University of Central Missouri. We offer you this catalog as a way to keep you better informed about our institution and its exciting array of nationally and internationally known academic programs. We hope the catalog will also provide you with a better understanding of the many advantages of an education at UCM, and how the university can help you achieve your life's goals.

The University of Central Missouri aspires to be a national-level, comprehensive university that delivers a world-class university education by providing a small-college environment coupled with large-university opportunities. It's an ambitious goal, but one we are poised to accomplish.

Founded in 1827, the University of Central Missouri today is a comprehensive institution with a statewide mission in liberal arts, professional applied sciences and technology. It offers undergraduate and graduate programs of study to students who come from all 50 states and many foreign countries.

We are a leader in discipline-specific accreditation, and we offer a high level of student-faculty ratio. We think you'll be impressed by our beautiful 1,561-acre campus and the friendliness of the people. Contact us at p1(t)-0.1692s 3 mut68.0013(. It)-0.169271( bE16(h t)-0.169271(he)-0.1474(opl

Calendar .....  
Central Community Creed .....

## **CON**

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# ... .. C end

## SUMMER SESSION MAY 2017

- May ..... Housing facilities open at p m for 1st session students
- May ..... Monday 1st week sessions begin
- May ..... Friday 1st week session ends and final exams
- May ..... Housing facilities close p m
- May ..... Housing facilities open at p m for 2nd session students
- May ..... Monday Memorial Day Holiday CLASSES DISMISSED and UNIVERSITY OFFICES CLOSED
- May 1st ..... Tuesday 2nd week sessions begin
- June ..... Friday 2nd week 1st week sessions end and final exams
  
- May .....
  
- May ..... Housing facilities open at L d ions end and final exams

## ***Your Catalog***

Your University of Central Missouri catalog contains a wealth of information for students and faculty members. Examine it carefully. Organized for your convenience, it has four main sections:

- I. General Information, Policies and Regulations, Services and Facilities;
- II. Academic Programs and Courses;
- III. Appendix with Four-year Plans for Most Degrees; and
- IV. University Personnel.

This catalog is a reliable guide for entering the University, reviewing available programs of study, planning a program, selecting courses, and meeting graduation requirements. If you are a student entering the University, keep this catalog. To the extent possible, the University will accept the degree requirements in it for an eight-year period. (See Section I, Date of Catalog for Checking Degree Requirements.)

Since the policies and programs of the University are constantly changing, no catalog can be completely up-to-date, even when it is published. Students, therefore, should review their programs periodically with an academic adviser and with departmental advisers to allow for necessary changes.

## ***The University***









**The Application Process.** To apply for admission, international students file the following credentials with the Office of International Admissions.

1. A completed application form.
2. Official (or notarized) transcripts in English from each high school or college previously attended.
3. Evidence of the availability of sufficient financial support to cover all university expenses for at least one full academic year.
4. A brief statement describing educational objectives and career plans.
5. \$50 application fee.

Applicants sending applications from another country should submit credentials at least three months before enrollment; those transferring from another institution in the United States, should submit credentials at least one month before enrollment.

**Demonstration of English Proficiency.** To provide the best opportunity for academic success and appropriate course placement, international students must submit evidence of English proficiency. Prior to enrolling in regular university courses, a satisfactory score on the TOEFL is required of all international students whose native language is not English. The acceptable TOEFL score for undergraduate placement in regular university courses is 500 paper-based or 173 computer-based, 61 Internet-based TOEFL. The TOEFL requirement is waived for applicants who have completed a minimum of 60 semester hours at an accredited college or university in the United States or who are citizens of a country whose native language is English.

International students who do not meet the minimum English proficiency requirement are not permitted to enroll in regular university classes and must participate in UCM's Intensive English Program until the minimum TOEFL requirement is satisfied or they have successfully completed level six of the Intensive English Program. Institutional TOEFL results earned at other insqn4(t)14.83idgt

u64(e)4.84ozi(pl)-0.167643(e)3(e)-0.18 .167643(ude)-0.151369271( t)-0.8291(h) tntl

**Validated Credit.** Validated credit is also an option within the





The University of Central Missouri actively follows a policy of nondiscrimination with regard to age, race, color, religion, sex, national origin, sexual orientation, marital status, Vietnam Era veterans, and persons with handicaps and disabilities.

This policy applies to the awarding of student financial aid, and the recruitment, admission, housing, placement, and retention of students, faculty and staff. The University complies with the regulations implementing Title VI and Title VII of the Civil Rights Act of 1964 regarding race, color, national origin, religion and sex discrimination; Title IX of the Education Amendments Act of 1972 regarding sex discrimination; the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973 regarding discrimination based on disabilities and handicaps; the Age Discrimination in Employment Act; and other state and federal laws and regulations.

Persons having inquiries concerning the University's compliance with the regulations implementing any of the above are directed to contact the General Counsel, Administration 208, 660-543-4730, or the Director of Human Resources, Administration 101, 660-543-4255, the University of Central Missouri, Warrensburg, MO 64093. Toll-free numbers for Relay Missouri are 800-735-2966 for TTY, and 800-735-2466 for voice callers.

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Federal law requires institutions of higher education, including the University of Central Missouri, to inform

***Fees and Expenses***

Housing, food service, and instructional fees are assessed for payment prior to the beginning of the semester. Rates are set by action of the Board of Governors and are subject to change. Information regarding rate changes is available from the Office of Student Accounts or by visiting [www.ucmo.edu/revenue](http://www.ucmo.edu/revenue).

**Supplies and Course Fees**

Certain specific courses and programs require supplementary fees, materials, supplies, and activities at additional expense to the student.  
*forG*

To help an individual reach his or her educational goals, the University of Central Missouri offers a variety of federal and state grant, loan, and employment assistance, much of which is awarded on the basis of a student's calculated financial need.

The Office of Student Financial Assistance annually processes over \$45 million in assistance to nearly two-thirds of the students who attend Central Missouri. Each student's family and economic situation is recognized as unique, and every financial aid application is examined on an individual basis. The number of applications











## ***Course Numbers***

The courses offered on the undergraduate level are divided into five categories.

In general, the following may be considered as guidelines:

**0000** level courses are primarily used for skills development and are not used to satisfy degree requirements.

**1000**

*State Requirement*





A college education is more than what happens in the



***Recreation Facilities***

**Morrow Fitness Center.** The Morrow Fitness Center (MOR 106) is an educational facility developed to provide Fitness/Wellness and Physical Education majors with a laboratory for research, testing, and rehabilitation activities. The facility is operated by the Department of Health and Human Performance and is located in the Morrow Building.

The Fitness Center is utilized by faculty, staff and students.

## ***Academic Advisement***

Academic advising is critical to the success, satisfaction, retention and graduation of the University of Central Missouri students. Academic advising is an ongoing interactive process involving the student, advisers, and institution. The primary goal of academic advising is to assist students in the development and accomplishment of meaningful educational plans that are compatible with their life goals. The University of Central Missouri utilizes a “split model” form of Academic Advisement. A centralized academic advisement office serves special student populations such as open option students and conditionally admitted students. All other students are assigned to the colleges for advising by both professional and faculty academic advisers. Academic advisers help undergraduates plan career opportunities, determine degree programs, select courses and coordinate their academic





### ***Campus Advocate***

The Campus Advocate serves as a support office for students with questions, concerns and/or problems. The advocate's role is to facilitate communication between students and others (faculty, administration, other students) and to assist students in knowing how to address/resolve problems within the framework of the University's organizational structure.

### ***Chapel***

library collections. The library is a participant in the Missouri Bibliographic Information User System (MOBIUS) giving

on campus and in surrounding communities to build partnerships.

### ***Office of Extended Campus and Distance Learning***

With the cooperation of Central Missouri academic departments, the Office of Extended Campus and Distance Learning administers courses and degree programs off campus, online and through interactive television. The office also coordinates the University's Summer Session, workshops, non-credit courses, contract training, high school dual credit courses, continuing education units (CEUs), vocational education courses and entrepreneurial courses.

### ***Office of International Programs***

The Office of International Programs is also known as the International Center and is located in Ward Edwards 1200. Housed together are the International Programs and Study Abroad services,

### ***Airport***

UCM owns and operates the Max B. Swisher Skyhaven Airport located three miles west of Warrensburg on Highway 50. It includes 402 acres of land; a 4,200-foot lighted runway, with a full-length parallel taxiway; a 2,800-foot lighted runway; and buildings for administration, maintenance, and other uses. The airport is a teaching laboratory for the University and a community airport serving the Warrensburg area.

### ***Alumni Association***

The Alumni Association of the University of Central Missouri provides opportunities for alumni to stay connected with their alma mater after graduation by hosting alumni gatherings throughout Missouri and around the country. Reunions are held for classes and organizations to reunite alumni and bring them to campus. Events are planned in conjunction with athletic events for alumni and fans alike. The Alumni Association seeks to recognize the accomplishments of alumni through awards such as the





**Research Involving Animals.** Federal law requires that all research projects involving the use of selected mammals and birds be conducted to ensure humane treatment of the animals. Accordingly, all such projects, regardless of the funding source,





The goals of the General Education Program are to provide students the opportunity to enhance the skills of the intellect; expand their knowledge, understanding, and appreciation of the arts, natural sciences, technology, social sciences, literature and the humanities; and contribute to the improvement of human interactions. These goals can best be accomplished through exposure to a common core of knowledge, as well as through the opportunity to select courses to accommodate individual interests. A common thread throughout the program components is our effort

Effective Fall 2004

**ene d c on A e , en**

These courses must be taken by the end of the semester in which the total number







• e l e c t o  
• L L A A •

**M n n n f o , o n**

To develop students' abilities to locate, organize, store, retrieve, evaluate, synthesize, and annotate information from print, electronic, and other sources in preparation for solving problems and making informed decisions.

1. Access and/or generate information from a variety of sources, including the most contemporary technological information services.
2. Evaluate information for its currency, usefulness, truthfulness, and accuracy.
3. Use appropriate technology to organize, store, and retrieve information effectively.

**n**

To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to analyze the ethical implications of choices made on the basis of these values.

1. Explain social institutions, structures, and processes across a range of historical periods and cultures.
2. Develop and communicate hypothetical explanations for individual human behavior within the large-scale historical and/or social context.
3. Draw on history and/or the social sciences to evaluate contemporary problems.
4. Describe and analytically compare social, cultural, and historical settings and processes other than one's own.
5. Articulate the interconnectedness of people and places around the globe.
6. Describe and explain the constitutions of the United States and Missouri.

1. Describe the scope and variety of works in the humanities and/or fine arts.
2. Explain the historical, linguistic, stylistic, cultural, and/or social contexts of the humanities and/or fine arts.
3. Identify the aesthetic values used to make critical judgments in various artistic fields.
4. Form, communicate, and defend a response based upon aesthetic values to works in the humanities and/or fine arts.
5. Identify the creative processes of artists in the visual, literary, and/or performing arts.

1. Recognize and/or describe the cultural, historical, and/or scientific contributions of mathematics to society.
2. Recognize and use connections within 152995(orm)-0.166016(, 2995(t)-0.169

# Science Education NO L D A A *continued*

Science Education  
NO L D A A

Standard Competence

## Life Science

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To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts.

1. Explain how to use the scientific method and how to develop and test hypotheses in order to draw defensible conclusions.
2. Evaluate scientific evidence and argument.
3. Describe the basic principles of the physical universe.
4. Describe concepts of the nature, organization, and evolution of living systems.
5. Explain how human choices affect the earth and living systems.

## Conclusion







# THE HONORS COLLEGE PROGRAM

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The Honors College offers an academic program specifically designed to enhance the educational experience of highly able and/or exceptionally motivated undergraduate students. The Honors College Program is flexibly structured to enable students to realize their full potential by providing them with opportunities for learning and development which may not be available otherwise. The College provides a stimulating academic environment within which gifted students can nurture their talents.

The Honors College will consider applications for admission to The Honors College from high school seniors, high school graduates, transfer students and Central Missouri students who have strong academic records.

For application material and information regarding admission requirements and benefits, interested students should contact the Dean of The Honors College, Library 1450, 660-543-4633.

Some of the present features of The Honors College include:

- Early enrollment
- Research grants
- Course overload privilege
- Transcript recognition.

## Division I Intellectual Skills ..... 12

### *Area A: Written Communication - 6 credit hours*

ENGL 1080 Advanced Composition .....3

Students in The Honors College take ENGL 1080 in place of ENGL 1020 and ENGL 1030. Completion of ENGL 1080 with a grade of C or above will result in 6 hours of credit – ENGL 1030 (3) and ENGL 1020 (3).

### *Area B: Oral Communication - 3 credit hours*

Choose one course from the following:

COMM 1000 Public Speaking .....3

THEA 1100 Oral Interpretation .....3

### *Area C: Mathematical Reasoning - 3 credit hours*

Choose one course from the following:

## Additional Institutional Requirements

### Division III Personal Interaction . . . . . 2

#### HONR 3000 Honors Colloquium . . . . . 2

A multi-dimensional course, the content of which may vary with each offering; required of and open only to members of The Honors College. May be repeated for a maximum of six semester hours.

Prerequisite: Junior standing or approval by the Dean of The Honors College.

### Division IV Integrative Studies . . . . . 4

#### HONR 4000 Honors Project\* . . . . . 4

A research study or creative project entailing independent work, which is required of and only open to members of The Honors College. Prerequisite: senior standing or approval by the Dean of The Honors College.

\* Not available for graduate credit

### o c e n n e o n o C o e e o ,

1. Each participant in The Honors College will be required to conform to the policy guidelines of The Honors College and the General Education Program. Suitable course electives consist of those courses permitted on the major/minor programs or in the General Education Program requirements. Any exceptions or departures will require the approval of the Dean of The Honors College.
2. Elementary education functional majors and elementary special







**Oslo, Norway. [www.hio.no](http://www.hio.no)**

The Oslo University College offers a variety of different courses in English for UCM students with special expertise in pedagogy, multicultural work, business, and the study of professions. Many other areas of study are also offered. This study site is located in the capital of Norway and offers the perfect place

ACCOUNTING Functional Major, B.S.B.A. Degree  
 ACTUARIAL SCIENCE AND MATHEMATICS  
 Functional Major, B.S. Degree  
 AGRICULTURE-BUSINESS Functional Major, B.S. Degree  
 AGRICULTURAL TECHNOLOGY Functional Major,  
 B.S. Degree  
 ART Functional Major, B.S.Ed. Degree  
 ATHLETIC TRAINING Functional Major, B.S. Degree  
 AUTOMOTIVE TECHNOLOGY MANAGEMENT  
 Functional Major, B.S. Degree  
 AVIATION TECHNOLOGY, Associate in Science Degree  
 AVIATION TECHNOLOGY Functional Major, B.S. Degree  
 BIOLOGY Functional Major, B.S.Ed. Degree  
 BIOLOGY Functional Major, B.S. Degree  
 BIOLOGY Major, B.A. Degree  
 BIOLOGY Major, B.S. Degree  
 BROADCAST MEDIA Major, B.S. Degree  
 BUSINESS EDUCATION Functional Major, B.S.Ed. Degree  
 BUSINESS EDUCATION Major, B.S.Ed. Degree  
 CHEMISTRY Functional Major, B.S.Ed. Degree  
 CHEMISTRY Functional Major, B.S. Degree  
 CHEMISTRY Major, B.A. Degree  
 CHILD AND FAMILY DEVELOPMENT Functional Major,  
 B.S. Degree  
 COMMERCIAL ART Functional Major, B.F.A. Degree  
 COMMUNICATION Major, B.A. Degree  
 COMPUTER-AIDED DRAFTING AND DESIGN  
 TECHNOLOGY Functional Major, B.S. Degree  
 COMPUTER INFORMATION SYSTEMS Functional Major,  
 B.S.BA. Degree  
 COMPUTER SCIENCE Functional Major, B.S. Degree  
 CONSTRUCTION MANAGEMENT Functional Major,  
 B.S. Degree  
 COOPERATIVE ENGINEERING 3-2 Functional Major,  
 B.A. Degree  
 CORPORATE COMMUNICATION Major, B.S. Degree  
 CRIMINAL JUSTICE Major, B.S. Degree  
 CRISIS & DISASTER MANAGEMENT Major, B.S. Degree  
 DIETETICS Functional Major, B.S. Degree  
 EARTH SCIENCE Functional Major, B.S.Ed. Degree  
 EARTH SCIENCE Major, B.A. Degree  
 ECONOMICS Major, B.A. Degree  
 ECONOMICS Major, B.S. Degree  
 ELECTRONICS ENGINEERING TECHNOLOGY  
 Functional Major, B.S. Degree  
 ELECTRONICS TECHNOLOGY Functional Major, B.S. Degree  
 ELEMENTARY EDUCATION Functional Major, B.S.Ed. Degree  
 ENGINEERING TECHNOLOGY Functional Major, B.S. Degree  
 ENGLISH Functional Major, B.S.Ed. Degree  
 ENGLISH Major, B.A. Degree  
 ENGLISH Major, B.S.Ed. Degree  
 FASHION: TEXTILES AND CLOTHING IN BUSINESS  
 Functional Major, B.S. Degree  
 FINANCE Functional Major, B.S.B.A. Degree  
 FRENCH Major, B.A. Degree  
 FRENCH Major, B.S.Ed. Degree  
 FRENCH Major, B.S. Degree  
 GENERAL RECREATION Major, B.S. Degree

GEOGRAPHY Major, B.A. Degree  
 GEOGRAPHY Major, B.S. Degree  
 GEOLOGY Functional Major, B.S. Degree  
 GRAPHIC ARTS TECHNOLOGY MANAGEMENT  
 Functional Major, B.S. Degree  
 HISTORY Major, B.A. Degree  
 HISTORY Major, B.S. Degree  
 HOTEL AND RESTAURANT ADMINISTRATION  
 Functional Major, B.S. Degree  
 INDUSTRIAL TECHNOLOGY Functional Major, B.S. Degree  
 INDUSTRIAL TECHNOLOGY Major, B.S. Degree  
 INDUSTRIAL TECHNOLOGY-MANUFACTURING  
 MANAGEMENT Functional Major, B.S. Degree  
 INTERIOR DESIGN Functional Major, B.F.A. Degree  
 JOURNALISM Major, B.S. Degree  
 MANAGEMENT Functional Major, B.S.B.A. Degree  
 MARKETING Functional Major, B.S.B.A. Degree  
 MATHEMATICS Functional Major, B.S.Ed. Degree  
 MATHEMATICS Major, B.A. Degree  
 MATHEMATICS Major, B.S.Ed. Degree  
 MATHEMATICS Major, B.S. Degree  
 MEDICAL TECHNOLOGY Functional Major, B.S. Degree  
 MIDDLE SCHOOL-JUNIOR HIGH SCHOOL Major,  
 B.S.Ed. Degree  
 MUSIC EDUCATION Functional Major, B.M.E. Degree  
 MUSIC Functional Major, B.M. Degree  
 MUSIC Major, B.A. Degree

STUDIO ART Functional Major, B.F.A. Degree  
 TECHNOLOGY EDUCATION Major, B.S.Ed. Degree  
 THEATRE Functional Major, B.F.A. Degree  
 THEATRE Major, B.A. Degree  
 TOURISM Major, B.S. Degree  
 VOCATIONAL AGRICULTURE EDUCATION Functional Major,  
 B.S.Ed. Degree  
 VOCATIONAL FAMILY AND CONSUMER SCIENCES  
 Functional Major, B.S.Ed. Degree

## PREFIXES FOR COURSES

**ACCT** - Accounting  
**AE** - Academic Enrichment  
**AERO** - Aerospace  
**AGRI** - Agriculture  
**ANTH** - Anthropology  
**ART** - Art  
**A&S** - Arts and Sciences  
**AT** - Athletic Training  
**AVIA** - Aviation  
**BIOL** - Biology  
**BLAW** - Legal Studies  
**BTE** - Business Teacher Education  
**CD** - Communication Disorders  
**CFD** - Child and Family  
 Development  
**CHEM** - Chemistry  
**CHIN** - Chinese  
**CIS** - Computer Information Systems  
**CJ** - Criminal Justice  
**CMGT** - Construction Management  
**COMM** - Communication  
**COUN** - Counselor Education  
**CS** - Computer Science  
**CTE** - Career and Technology  
 Education  
**D&N** - Dietetics and Nutrition  
**DRED** - Driver Education  
**EASC** - Earth Science  
**ECON** - Economics  
**EDCI** - Curriculum and Instruction  
**EDSP** - Special Education

**EET** - Electronics Engineering  
 Technology  
**ENGL** - English  
**ET** - Electronics Technology  
**FACS** - Family and Consumer  
 Sciences  
**FAME** - Fashion and Apparel  
 Merchandising  
**FIN** - Finance  
**FOOD** - Food  
**FREN** - French  
**GEOG** - Geography  
**GER** - German  
**GRAP** - Graphics  
**HED** - Health Education  
**HIST** - History  
**HM** - Hospitality Management  
**HONR** - Honors  
**HRM** - Human Resource  
 Management  
**ICAP** - Capstone Integrative Studies  
**IGEN** - General Integrative Studies  
**INDM** - Industrial Management  
**INDT** - Industrial Technology  
**INST** - Instructional Technology  
**ISP** - International Studies  
**LIS** - Library Science and  
 Information Services  
**MATH** - Mathematics  
**MGT** - Management  
**MKT** - Marketing

**ML** - Modern Languages  
**MMGT** - Manufacturing  
 Management  
**MS** - Military Leadership  
**MUS** - Music  
**NET** - Network  
**NLSL** - Nursing Leadership in  
 Service Learning  
**NUR** - Nursing  
**PE** - Physical Education  
**PHIL** - Philosophy  
**PHOT** - Photography  
**PHYS** - Physics  
**POLS** - Political Science  
**PR&T** - Power & Transportation  
**PSY** - Psychology  
**REC** - Recreation  
**REL** - Religious Studies  
**SAFE** - Safety Science  
**SOC** - Sociology  
**SOSC** - Social Science  
**SOWK** - Social Work  
**SPAN** - Spanish  
**THEA** - Theatre  
**T&OE** - Technology and  
 Occupational Education  
**TOUR** - Tourism  
**WS** - Women's Studies



# Art

In the Department of Art, the second digit in the course number stands for the following: 0-Art Problems, 1-Drawing, 2-Figure Drawing and Life Drawing, 3-Design, 4-Sculpture and Ceramics, 5-Painting, 6-Commercial Art, 7-Printmaking, 8-Art History, 9-Art Education.

NOTE The University of Central Missouri is an accredited institutional member of the National Association of Schools of Art and Design, 11250 Roger Bacon Dr., Suite 21, Reston, VA, 20190-5248; phone 703-437-0700.

## Department of Art Statement of Policy

Students in studio courses in art are required to furnish their own materials except certain studio equipment and some highly specialized materials provided by the Department. All work when completed is under the control of the Department until the end of the academic year. The student is expected to have a representative portfolio of his/her work available for presentation at any time prior to graduation.

Each candidate for a degree may be required to leave with the Department of Art one or more pieces of original work. These are added to the collection of the work of graduates and will form a permanent University collection.

During the sophomore year or during the first semester after transferring from another institution, all candidates for degrees will present a portfolio of work to be reviewed by the faculty for the purpose of acceptance into the Bachelor of Fine Arts program.

During the senior year, all candidates for degrees will present an exhibition of representative work to be reviewed by the faculty as partial graduation approval. Specific information about reviews and exhibitions may be obtained in the Department of Art office.

## ART

Functional Major, Bachelor of Science in Education Degree  
Certification to teach art in grades K-12  
(41-375)

The graduate with a Bachelor of Science in Education degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.
- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards

## COMMERCIAL ART

Functional Major, Bachelor of Fine Arts Degree  
(47-372)

The graduate with a Bachelor of Fine Arts degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.
- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards and practices for seeking employment and achieving long-term success in their degree program career field.

Sem. Hours

### FUNCTIONAL MAJOR REQUIREMENTS . . . . . /

|                 |                                       |   |
|-----------------|---------------------------------------|---|
| ART 4020        | Studio Seminar (Portfolio)            | 3 |
| ART 1110        | Drawing I                             | 3 |
| ART 1120        | Drawing II                            | 3 |
| ART 1315        | Design I                              | 3 |
| ART 1325        | Design II                             | 3 |
| ART 2335        | Design III                            | 3 |
| ART 2511        | Painting I                            | 3 |
| ART 3510        | Watercolor                            | 3 |
| ART 2610        | Introduction to Commercial Art        | 3 |
| ART 2710        | Introduction to Printmaking           | 3 |
| ART 1800        | Ideas & the Visual Arts               | 3 |
| ART 1825        | Art History Survey II                 | 3 |
| ICAP 4221       | Artists in Contemporary Society       | 3 |
| ART 2412        | Ceramics I, 3 or                      |   |
| ART 2420        | Sculpture I, 3                        | 3 |
| ART 1815        | Art History Survey I, 3 or            |   |
| ART 1835        | Survey of Non-Western Art History, 3  | 3 |
| ART 4850        | 20th Century Art & Architecture, 3 or |   |
| ART 4860        | Contemporary Art & Design, 3          | 3 |
| Elective in art |                                       | 3 |

Departmentally approved electives from one of the following areas . . . . . 36

Area 1 Graphic Design

Area 2 Illustration

List available from the Chair of the Art Department.

### MINOR NOT REQUIRED

#### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

In the functional major, ART 1800 fulfills 3 s.h. of Div. II C;

ICAP 4221 fulfills 3 s.h. of Div. IV B . . . . .

MINIMUM TOTAL . . . . . 1

## INTERIOR DESIGN

Functional Major, Bachelor of Fine Arts Degree  
(47-374)

The graduate with a Bachelor of Fine Arts degree in Art will use the knowledge and skills obtained in these programs to:

- Demonstrate critical and creative thinking by incorporating theories and practices in art and design production adequate for innovative expression in the visual arts.
- Communicate and support informed and artistically sensitive interpretations and judgments about his/her own work as well as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.

- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.
- Use technology in creative, critical and teaching processes as well as a resource for producing art and gathering information about art, art history, aesthetics and art criticism.
- Exhibits evidence of an understanding of the professional standards and practices for seeking employment and achieving long-term success in their degree program career field.

Sem. Hours

### FUNCTIONAL MAJOR REQUIREMENTS . . . . . /

|                              |                                       |   |
|------------------------------|---------------------------------------|---|
| ART 4020                     | Studio Seminar                        | 3 |
| ART 1110                     | Drawing I                             | 3 |
| ART 1120                     | Drawing II                            | 3 |
| ART 1315                     | Design I                              | 3 |
| ART 1325                     | Design II                             | 3 |
| ART 2310                     | Introduction to Interior Design       | 3 |
| ART 2320                     | Residential Interior Design           | 3 |
| ART 2335                     | Design III                            | 3 |
| ART 3305                     | Interior Design Presentation Tech.    | 3 |
| ART 3310                     | Traditional Interiors                 | 3 |
| ART 3320                     | Prof. Practice for Interior Designers | 3 |
| ART 3330                     | Restaurant & Store Planning           | 3 |
| ART 3340                     | Interior Detailing & Furniture Design | 3 |
| ART 4340                     | Corporate & Institutional Design      | 3 |
| ART 1800                     | Ideas & the Visual Arts               | 3 |
| ART 1825                     | Art History Survey II                 | 3 |
| ART 3800                     | History of Furniture & Interiors      | 3 |
| FAME 2442                    | Textiles                              | 3 |
| FAME 4410                    | Architectural Interiors               | 3 |
| GRAP 1110                    | Fundamentals of Drafting              | 3 |
| GRAP 2170                    | Intro. to Computer-Aided Drafting     | 2 |
| GRAP 3160                    | Residential Arch. Drawing             | 3 |
| ICAP 4221                    | Artists in Contemporary Society       | 3 |
| ART 2412                     | Ceramics I, 3 or                      |   |
| ART 2420                     | Sculpture I, 3                        | 3 |
| ART 2511                     | Painting I, 3 or                      |   |
| ART 3510                     | Watercolor, 3                         | 3 |
| ART 1815                     | Art History Survey I, 3 or            |   |
| ART 1835                     | Survey of Non-Western Art History, 3  | 3 |
| ART 4850                     | 20th Century Art & Architecture, 3 or |   |
| ART 4860                     | Contemporary Art & Design, 3          | 3 |
| Electives from the following |                                       | 6 |
| ART 2610                     | Intro. to Commercial Art              | 3 |
| ART 2710                     | Introduction to Printmaking           | 3 |
| ART 3314                     | Fibers                                |   |



as visual forms made by others by using perceptual, critical and aesthetic concepts that underlie the disciplines of art and design.

- Recognize and describe major periods, styles and artists in art history, as well as the historical forces that influence aesthetics, creativity and critical theory.
- Facilitate a culturally rich and visually sensitive society by recognizing and utilizing the unique and important artistic contributions made by women and men from diverse racial, geographical and cultural groups.

ART 202 Papermaking (3) Introduces the student to western techniques in hand papermaking: sheet forming and two- and three-dimensional paper structures. May be repeated for a maximum of 9 semester hours. Prerequisite: 20 semester hours of art.

ART 209 Corporate and Institutional Design (3) Increasing emphasis on space arrangement for commercial and institutional use; introduction to specifications of materials and specification writing; emphasis in office design. May be repeated for a maximum of 6 semester hours. An additional fee is associated with this course. Prerequisite: ART 3330 for art majors; GRAP 3160 or consent of



## **BROADCAST MEDIA**

Major, Bachelor of Science Degree

Please see the Department of Communication for updates regarding this program.  
(43-342)

### **Broadcast Media Statement of Policy Admission**

Application into the Broadcast Media major should be made after departmental program pre-admission requirements have been completed.

Admission to the Broadcast Media program is conditional upon the completion of the following prerequisites:

1. Completion of the following General Education requirements





|           |   |   |
|-----------|---|---|
|           | Video Production . . . . .                | 1 |
| COMM 3525 | Feature Writing . . . . .                 | 3 |
| COMM 3535 | Broadcast Journalism . . . . .            | 3 |
| COMM 4250 | Mass Communication Law . . . . .          | 3 |
| COMM 4500 | Heritage of American Journalism . . . . . | 3 |
| COMM 4522 | Desktop Design for Teachers . . . . .     | 3 |
| COMM 4555 | Advanced Editing . . . . .                | 3 |
| COMM 4571 | Methods of Teaching Journalism . . . . .  | 3 |

|           |  |     |
|-----------|--|-----|
| COMM 3625 | Design & Layout for Publications . . . . .                                   | 1   |
| COMM 4250 | Mass Communication Law . . . . .   | 3   |
| COMM 4295 | Internship . . . . .   | 3   |
| COMM 4510 | Magazine Design & Production . . . . .                                       | 3   |
| COMM 4680 | Publicity . . . . .  | 3   |
| COMM 4685 | Case Studies in Public Relations . . . . .                                   | 2   |
| COMM 4690 | Campaigns . . . . .  | 3   |
|           | Electives from the following . . . . .                                       | 8   |
|           | COMM 3200 Mass Media Practicum . . . . .                                     | 1-3 |
|           | COMM 3327 Improving Interviewing Skills. . . . .                             | 3   |
|           | COMM 3350 Principles of Presentational Speaking ractic. SrA282(2625 )-1205(M |     |
|           | A.008 .131836()-2(ractic.)-54295 Internship . . . . .                        | 1-3 |
|           | COMM 447SrA282(2Corporate)-0.00661236( & Org)19.01(. Media P)19.0064(ro      |     |
|           | G-A.4.99( )48M 3280 Spons 59(10cticum)0.(Div)70400818. I B.06of.-duatALIS-29 |     |

**JOURNALISM**

Minor for a Bachelor’s Degree  
Please see the Department of Communication for updates regarding this program  
Except for a Bachelor of Science in Education Degree (2008)

Sem. Hours

|                              |   |     |
|------------------------------|---|-----|
| MINOR REQUIREMENTS . . . . . |   | -   |
| COMM 1100                    | Intro to Communication . . . . .                | 1   |
| COMM 1520                    | Elements of News Reporting . . . . .            | 3   |
| COMM 2520                    | Copyediting & Layout . . . . .                  | 3   |
| COMM 3525                    | Feature Writing, 3 . . . . .                    | 3   |
| COMM 4250                    | Mass Communication Law . . . . .                | 3   |
| COMM 4500                    | Heritage of American Journalism . . . . .       | 3   |
| COMM 4535                    | Advanced News Reporting . . . . .               | 3   |
|                              | Electives from the following . . . . .          | 3-6 |
|                              | COMM 3200 Mass Media Practicum . . . . .        | 1-2 |
|                              | COMM 3280 Sports Writing . . . . .              | 3   |
|                              | COMM 4280 Criticism of Mass Media . . . . .     | 2   |
|                              | COMM 3530 Photo Journalism . . . . .            | 3   |
|                              | COMM 3535 Broadcast Journalism . . . . .        | 3   |
|                              | COMM 4520 Editorial & Interp. Writing . . . . . | 3   |
|                              | COMM 4555 Advanced Editing . . . . .            | 3   |

**PUBLIC RELATIONS**

Major, Bachelor of Science Degree  
Please see the Department of Communication for updates regarding this program.  
For admission and classwork requirements, see Statement of Policy. (43-351)

**Admission**

Application in the Public Relations major should be made after departmental pre-admission requirements have been completed.  
Admission to the Public Relations degree program is conditional upon the completion of the following prerequisites:  
1. All public relations majors must obtain a 2.25 GPA (with no grade lower than a C) in COMM 2620, COMM 2625 and COMM 3620.  
2. Public Relations B.S. majors must obtain a 2.25 (or above) grade point average for all credit hours (completed at UCM or elsewhere) and attain a 2.5 grade point average for all course work in the major.

The graduate with a Bachelor of Science degree in Public Relations will use the knowledge and skills obtained in the program to:

- Demonstrate public relations driven knowledge and application of strategic communication concepts.
- Demonstrate ability to effectively evaluate and utilize research for public relations purposes.
- Demonstrate critical thinking, problem-solving, and decision making abilities in the professional arena.
- Demonstrate preparedness for professional life and/or further academic study.

Sem. Hours

|                              |   |    |
|------------------------------|---|----|
| MAJOR REQUIREMENTS . . . . . |   | 13 |
| COMM 1100                    | Introduction to Communication. . . . .            | 1  |
| COMM 2100                    | Introduction to Communication Theory . . . . .    | 3  |
| COMM 3100                    | Communication Research Methods . . . . .          | 3  |
| COMM 2620                    | Public Relations . . . . .                        | 3  |
| COMM 2625                    | Writing & Editing for Public Relations . . . . .  | 3  |
| COMM 3620                    | Strategic Planning for Public Relations . . . . . | 3  |

|  |      |                      |       |     |
|--|------|----------------------|-------|-----|
| WS   | 2000 | Div. II D (required) | ..... | 3   |
| IGEN   | 4224 | Div. IV A or         |       |     |
| IGEN   | 3232 | Div. IV A or         |       |     |
| IGEN   | 3224 | Div. IV A (required) | ..... | 3   |
| MODERN LANGUAGE REQUIREMENT .....  |      |                      |       | ? - |
| Refer to Bachelor's Degree Requirements section for fulfillment options. |      |                      |       |     |
| FREE ELECTIVES .....   |      |                      |       | 1 - |
| MINIMUM TOTAL .....  |      |                      |       | 1   |

**SPEECH COMMUNICATION**  
Major, Bachelor of Science Degree



## SPEECH COMMUNICATION

Minor for a Bachelor's Degree

Please see the Department of Communication for updates regarding this program.

Except for a Bachelor of Science in Education Degree (360)

|   | Sem. Hours |
|---|------------|
| MINOR REQUIREMENTS . . . . .                    | 1          |
| COMM 1000 Public Speaking . . . . .             | 3          |
| COMM 3010 Interpersonal Communication . . . . . | 3          |
| COMM 2330 Small Group Communication . . . . .   | 3          |
| Electives in speech communication . . . . .     | 12         |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, COMM 1000 fulfills 3 s.h. of Div. I B; COMM 3010 fulfills 3 s.h. of Div. II E.

## SPEECH COMMUNICATION AND THEATRE

Major, Bachelor of Science in Education Degree

Please see the Department of Communication for updates regarding this program.

Certification to teach speech and theatre in grades 9-12 (41-362)

|   | Sem. Hours |
|---|------------|
| CORE REQUIREMENTS . . . . .                     | 1          |
| THEA 1500 Acting . . . . .                      | 3          |
| THEA 1600 Stagecraft . . . . .                  | 3          |
| THEA 3700 Directing . . . . .                   | 3          |
| COMM 2100 Foundations of Comm. Theory . . . . . | 3          |
| COMM 2330 Small Group Communication . . . . .   | 3          |
| COMM 2340 Argumentation & Debate . . . . .      | 3          |
| COMM 3325 Nonverbal Communication . . . . .     | 2          |
| COMM 3390 Forensics . . . . .                   | 1          |

## SPEECH COMMUNICATION AND THEATRE

Minor, Bachelor of Science in Education Degree

See requirements as outlined in the Department of Theatre.

## THEATRE

Major Option, Bachelor of Science in Education Degree

See requirements as outlined in the Department of Theatre.

### Course Descriptions

COMM 1000 Public Speaking (3) A study and practice of basic principles involved in discovering, arranging, delivering, and evaluating ideas in speech situations.

COMM 1100 Introduction to Communication Studies (1) This course introduces the student to communication and the way it impacts the social, economic and political lives of consumers and how they can have impact upon the media.

COMM 100 Introduction to Mass Communication (3) Theory of mass communication, roles and functions of mass media in a contemporary society.

COMM 100 Elements of News Reporting (3) News, news sources, principles and techniques of news writing; duties and responsibilities of the reporter. Keyboarding ability necessary. Laboratory required. Prerequisite: completion of General Education Div. I A.

COMM 100 Introduction to Communication Theory (3) The process by which communication principles are formulated and the principles themselves, with emphasis on both their theoretical and pragmatic dimensions.

COMM 200 Foundations of Rhetorical Theory (3) Nature and functions of rhetoric across various communication situations.

COMM 200 Improving Listening Abilities (3) Theories and principles for improving listening in a variety of communication situations.

COMM 200 Small Group Communication (3) Communication process as it relates to small group behavior, including the study of principles, methods, and forms of discussion used in small groups.

COMM 200 Argumentation and Debate (3) Principles of analysis, evidence, reasoning, briefing, refutation, case construction, preparing and evaluating arguments. Practical experience with different types of debate.

COMM 200 Intro to Organizational Communication (3) Examines human communication within an organizational context. Contemporary approaches, the enduring processes, and emergent communication processes facing contemporary organizations are considered.

COMM 200 Foundations of Broadcasting (3) Legal, historical, economic, societal and technological foundations of broadcasting.

COMM 200 Principles of Presentational Speaking (3) Designed to increase awareness and understanding of speech theory and, by means of speaking exercises, to increase proficiency as a speaker in a variety of professional settings. Prerequisite: COMM 1000.

COMM 201 Speech Writing and Criticism (3) A study of critical practices and methodology including the composition of speech manuscripts and the application of standards for evaluation.

COMM 202 Special Topics in Speech Communication (1-3) The study of subjects not included in department's regular offering such as parliamentary procedure, intercultural and/or therapeutic communication. May be repeated for a maximum of 6 semester hours. Prerequisite: Consent.

COMM 203 Forensics (1) Participation in intercollegiate forensics-debate, oratory, extemporaneous speaking, discussion, and oral interpretation. May be repeated for a maximum of 3 semester hours.

COMM 209 History of American Film (3) Development of the American film from the silent era to the present.

COMM 210 Audio Production II (3) Techniques of digital-audio post-production and practical studio performance applications. Prerequisite: COMM 2411.

COMM 211 Video Production II (3) Intermediate course in digital video production/performance covering electronic field production, electronic news gathering, producing, directing, shooting and editing techniques. Prerequisite: COMM 2412.

COMM 212 Single Camera Dramatic Production (3) Production of dramatic programs shot on 16mm film or digital video. Topics include scripting, directing, shooting, non-linear editing and animation. Prerequisite: COMM 2412.

COMM 213 Multimedia II (3) Advanced multimedia applications, including audio/video, animation, and incorporation of moving images, two-dimensional images and text to create interactive, multimedia environments. Prerequisite: COMM 2410.

COMM 214 Broadcast Programming and Operations (3)

Operation and programmingT /R42o37 8 Tf I9urs. d2 0 23atexoS-9.s.adimyORscultur6\*[( /R42o37 8 Tf I9695801( pro9698.9496(riduction andelication 9.6 Th

COMM 110 Magazine Design and Production (3) The magazine process from the collection of raw material through layout and design to the circulation of the finished product. Prerequisites: COMM 2625, COMM 3625.

COMM 110 Editorial and Interpretative Writing (3) Principles and techniques of editorial and interpretative article writing; relationship between the news, the editorial and the business aspects of a newspaper. Prerequisite: COMM 3525.

COMM 110 Desktop Design for Teachers (3) Instructs students in the use of QuarkXpress for newspaper design and makeup. Prerequisite: COMM 2520 or consent.

COMM 112 Advanced News Reporting (3)

|   |                               |     |
|---|-------------------------------|-----|
|   | American Literature Area B    |     |
| ENGL 2205   | American Lit. 1865 to Present | 3   |
| Electives from the following  |                               | 6   |
| ENGL 4610   | American Renaissance          | 3   |
| ENGL 4620   | Early American Literature     | 3   |
| ENGL 4670   | Ethnic American Lit.          | 3   |
| ENGL 4680   | African American Lit.         | 3   |
| MINOR REQUIREMENTS  |                               | 1 - |
| GENERAL EDUCATION REQUIREMENT (pages 34-43) The Modern Language Requirement fulfills 3 s.h. of Div. II C. ENGL 2220 in the major fulfills 3 s.h. of Div. II C |                               |     |
| MODERN LANGUAGE REQUIREMENT   |                               | ? - |
| Refer to Bachelor's Degree Requirements section for fulfillment options.  |                               |     |
| FREE ELECTIVES  |                               | -   |
| MINIMUM TOTAL   |                               | 1   |

## ENGLISH

Major, Bachelor of Science in Education Degree  
 Certification to teach English in grades 9-12  
 (41-311)

Sem. Hours

|                               |                            |         |
|-------------------------------|----------------------------|---------|
| FUNCTIONAL MAJOR REQUIREMENTS | .....                      | -       |
| ENGL 2220                     | World Masterpieces         | ..... 3 |
| ENGL 2830                     | Literature for Adolescents | ..... 3 |

ENGL 4720 Modern British Poetry .....3  
British Literature Area B

ENGL 1020 World Masterpieces (C) Major works of world literature, excluding British and American. Prerequisites: ENGL 1020 and ENGL 1030, or ENGL 1080, or equivalents.

ENGL 1021 Literature and Film (C) Reading and discussion of selected novels and film scripts combined with laboratory viewing sessions.

ENGL 1022 Literature and the Arts (C) A course relating literature to the arts of painting, sculpture, architecture, music, and the dance.

ENGL 1023 Fiction by Women Around the World (C) Novels and short stories by women around the globe.

ENGL 1024 Science Fiction and Fantasy ( ) An introduction to science fiction and fantasy.

ENGL 1025 Special Topics in Gothic Literature (C)

## Philosophy

In the section of Philosophy, the second digit in the course number stands for the following: 0-General, 1-History, 2-Special Projects, 3-Ethics, 4-Logic, 5-Aesthetics, 6-Special Topics, 7-Religion, 8-Theory of Knowledge.

### PHILOSOPHY

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (317)

Students who complete a minor in Philosophy will use the knowledge and skills obtained to:

- Demonstrate knowledge and understanding of the major writings of the eminent philosophers of the classical period and the modern period (16-18th century).
- Demonstrate knowledge and understanding of how philosophical ideas have evolved through the history of philosophy.
- Demonstrate knowledge and understanding of the major theories of ethics (such as virtue ethics, consequentialism, utilitarianism, deontological ethics, etc.) as well as the writings of philosophers such as Plato, Aristotle, Hume, Kant, etc.
- Demonstrate practical competence in applying the techniques of formal and informal logic for evaluating arguments.

Sem. Hours

|                         |   |    |
|-------------------------|---|----|
| MINOR REQUIREMENTS      | .....                                   | 21 |
| PHIL 1000               | Introduction to Philosophy              | 3  |
| PHIL 2300               | Ethics                                  | 3  |
| PHIL 3100               | History of Phil.: Enlightenment Thought | 3  |
| PHIL 3110               | History of Philosophy: Ancient Thought  | 3  |
| PHIL 1400               | Deductive Logic, 3 or                   |    |
| PHIL 1410               | Critical Thinking, 3                    | 3  |
| Electives in philosophy | .....                                   | 6  |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, PHIL 1000 fulfills 3 s.h. of Div. II C; PHIL 2300 fulfills 3 s.h. of Div. III.

#### General

PHIL 1000 Introduction to Philosophy (P) A first course in philosophy, surveying selected problems and perspectives in metaphysics, ethics, the theory of knowledge and/or philosophy of mind.

#### History

PHIL 100 History of Philosophy Enlightenment Thought (P) A consideration of and criticism of the views of the major Western philosophers from the end of the Middle Ages through Kant.  
 PHIL 110 History of Philosophy Ancient Thought (P) Problems, positions, and arguments in ancient philosophy from the pre-Socratics to the beginning of the Middle Ages, with particular emphasis on Plato and Aristotle.

#### Special Projects

PHIL 0 Special Projects in Philosophy (P) An introduction to an analysis of philosophical problems and theories in the student's major area of study. May be repeated for a maximum of 6 semester hours.

#### Ethics

PHIL 00 Ethics (P) An examination of systematic moral philosophies, challenges to the possibility of an objectively correct morality, and application of morality to a variety of specific problems.

#### Logic

PHIL 100 Deductive Logic (P) An introduction to the principles, forms, and methods of valid reasoning by a survey of syllogistic logic, propositional logic, and elementary quantificational logic.  
 PHIL 110 Critical Thinking (P) An introduction to the basic principles and patterns of good reasoning, emphasizing informal argument analysis and practical applications of logic.

#### Aesthetics

PHIL 00 Aesthetics (P) A survey of philosophy of art from Plato to the present, covering the nature of art, its function in human experience, the basis for standards of evaluation, problems of interpretation, comparisons of different arts, and related topics.

#### Special Topics

PHIL 00 Special Topics in Philosophy (1-2) Individual or group work by qualified and specially selected students in carefully chosen fields, for more intensive study. May be repeated for a maximum of 6 semester hours.  
 PHIL 0 Studies in Literature and Philosophy (P) An interdisciplinary approach to the study of literature and philosophy. Course instructors will change to fit the particular topic of the course.

#### Religion

PHIL 10 Philosophy of Religion (P) The concept of religion, analysis and evaluation of arguments for God's existence, the problem of evil, the nature of religious language, the concept of immortality, and related topics.

#### Theory of Knowledge

PHIL 00 Philosophy of Science and Technology (P) Philosophical examination of the nature of scientific theorizing; the relation between scientific methodology, rationality, and progress; the nature of technology and its relation to science.

#### Aesthetics

PHIL 00 Aesthetics (P) A survey of philosophy of art from Plato to the present, covering the nature of art, its function in human experience, the basis for standards of evaluation, problems of interpretation, comparisons of different arts, and related topics.

#### Special Topics

PHIL 00 Special Topics in Philosophy (1-2) Individual or group work by qualified and specially selected students in carefully chosen fields, for more intensive study. May be repeated for a maximum of 6 semester hours.  
 PHIL 0 Studies in Literature and Philosophy (P) An interdisciplinary approach to the study of literature and philosophy. Course instructors will change to fit the particular topic of the course.

#### Religion

PHIL 10 Philosophy of Religion (P) The concept of religion, analysis and evaluation of arguments for God's existence, the problem of evil, the nature of religious language, the concept of immortality, and related topics.

#### Theory of Knowledge

PHIL 00 Philosophy of Science and Technology (P) Philosophical examination of the nature of scientific theorizing; the relation between scientific methodology, rationality, and progress; the nature of technology and its relation to science.



# History and Anthropology

Sem. Hours

## Department of History and Anthropology

### Statement of Policy

A course with a grade lower than a "C" will not be allowed to fulfill a major or minor requirement in any program offered by the Department of History and Anthropology.

### HISTORY

Major, Bachelor of Arts Degree (42-420)

The graduate with a Bachelor of Arts in History degree will use the knowledge and skills obtained in the program to:

- Learn and judge the basis of historical knowledge in references, documents, archives, artifacts, and electronic media.
- Differentiate between fact and interpretation, logic and bias; effectively communicate this knowledge in written and technological formats.
- Recognize conceptual frameworks and apply a point-of-view.
- Determine cause-and-effect relationships in the past.
- Read history critically for alternatives.
- Learn lessons from the past by applications to the present.
- Respect the past as prologue to the present.
- Integrate historical knowledge with other fields of study.

Sem. Hours

### MAJOR REQUIREMENTS

|      |      |                                 |   |
|------|------|---------------------------------|---|
| HIST | 1350 | History of the U. S. to 1877    | 3 |
| HIST | 1351 | History of the U. S. from 1877  | 3 |
| HIST | 2400 | History of the Early World      | 3 |
| HIST | 2401 | Hist. of the Early Modern World | 3 |
| HIST | 2402 | Hist. of the Modern World       | 3 |
| SOSC | 3010 | Writing in Social Sciences      | 3 |
| IGEN | 4231 | Myth, Memory & Realities        | 3 |

Upper-level electives in American history . . . . . 6

Upper-level electives in world history . . . . . 9

A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.

Upper-level elective in history . . . . . 3

### MINOR REQUIREMENTS

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the major, HIST 1350 fulfills 3 s.h. of Div. II B; the Modern Language Requirement fulfills 3 s.h. of Div. II C; HIST 2402 fulfills 3 s.h. of Div. II D; IGEN 4231 fulfills 3 s.h. of Div. IV A . . . . . ?

MODERN LANGUAGE REQUIREMENT Refer to Bachelor's Degree Requirements section for fulfillment options. . . . . 3-9

FREE ELECTIVES . . . . . 1 -

MINIMUM TOTAL . . . . . 1

### HISTORY

Major, Bachelor of Science Degree (43-421)

The graduate with a Bachelor of Science in History degree will use the knowledge and skills obtained in the program to:

- Learn and judge the basis of historical knowledge in references, documents, archives, artifacts, and electronic media.
- Differentiate between fact and interpretation, logic and bias; effectively communicate this knowledge in written and technological formats.
- Recognize conceptual frameworks and apply a point-of-view.
- Determine cause-and-effect relationships in the past.
- Read history critically for alternatives.
- Learn lessons from the past by applications to the present.
- Respect the past as prologue to the present.
- Integrate historical knowledge with other fields of study.

### MAJOR REQUIREMENTS

|      |      |                                   |   |
|------|------|-----------------------------------|---|
| HIST | 1350 | History of the U. S. to 1877      | 3 |
| HIST | 1351 | History of the U. S. from 1877    | 3 |
| HIST | 2400 | History of the Early World        | 3 |
| HIST | 2401 | History of the Early Modern World | 3 |
| HIST | 2402 | History of the Modern World       | 3 |
| SOSC | 3010 | Writing in Social Sciences        | 3 |
| IGEN | 4231 | Myth, Memory & Realities          | 3 |

Upper-level electives in American history . . . . . 6

Upper-level electives in world history . . . . . 9

A minimum of three hours of world history must be non-western history, or HIST 4452 or HIST 4453.

Upper-level elective in history . . . . . 3

### MINOR REQUIREMENTS

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the major, HIST 1350 fulfills 3 s.h. of Div. II B; HIST 2402 fulfills 3 s.h. of Div. II D; IGEN 4231 fulfills 3 s.h. of Div. IV A . . . . . ?

FREE ELECTIVES . . . . . 1-

MINIMUM TOTAL . . . . . 1

### HISTORY

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (422)

Sem. Hours

### MINOR REQUIREMENTS

|      |      |                                   |   |
|------|------|-----------------------------------|---|
| HIST | 1350 | History of the U. S. to 1877      | 3 |
| HIST | 1351 | History of the U. S. from 1877    | 3 |
| HIST | 2400 | History of the Early World        | 3 |
| HIST | 2401 | History of the Early Modern World | 3 |
| HIST | 2402 | History of the Modern World       | 3 |

Upper-level electives in history . . . . . 5

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, HIST 1350 fulfills 3 s.h. of Div. II B; HIST 2402 fulfills 3 s.h. of Div. II D

### American History

HIST 1<sup>?</sup> 0 History of the United States to 1 // ( ) Survey of U.S. history from the age of exploration to 1877. Fulfills state requirements of Section 170.011 RSMo.

HIST 1<sup>?</sup> 1 History of the United States from 1 // ( ) Survey of U.S. history from 1877 to present. Fulfills state requirements of Section 170.011 RSMo.

HIST 2<sup>?</sup> 00 Missouri History ( ) Missouri history from earliest times to the present.

HIST 2<sup>?</sup> 01 American Historical Biography ( ) Biographies of selected American political leaders and molders of opinion and institutions showing the interaction of men/women and their times and the resulting influences on American development.

HIST 2<sup>?</sup> 0/ American Colonial History 1 0/-1 / ? ( ) American political, economic, and cultural institutions in the colonial period.

HIST 2<sup>?</sup> 0 The African-American in American History ( ) Economic, political, and social development of the African-American in the United States.

HIST 2<sup>?</sup> 10 Women in America ( ) Women in America from colonial times to the present with emphasis upon the nineteenth century feminist movement and the recent twentieth century women's rights movement.

HIST 2<sup>?</sup> 11 Revolution and Republic ( ) American political, economic, and cultural institutions from 1763 to the War of 1812.

HIST 2<sup>?</sup> 1 Jacksonian America ( ) Cultural, social, political and economic development of the United States from the War of 1812 to 1848.

HIST 2<sup>?</sup> 1 The Civil War and Reconstruction ( ) The causes of the war, the social, political, economic and military impact of the war; and the post-war reconstruction process.

HIST 21 The American Military Experience ( ) A military history of the American people from colonial times to the present, specifically designed to satisfy the Professional Military Education component of the Military Qualifications Standards required of all candidates for commissioning in the United States Army.

HIST 21 / The Jazz Age and the Great Depression ( ) The social, cultural and political trends of the Jazz Age, the social and economic impact of the Great Depression, and the advent of the New Deal.

HIST 20 History of the Westward Movement ( ) Economic, social, cultural, and political contributions to American development by the Westward Movement.

HIST 21 History of the South ( ) Social, economic, and political development of the South from colonial times to the present.

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HIST 100 The Modern Middle East (3) The course will focus on western Asia, north Africa, and the Eastern Mediterranean region since the Napoleonic invasion of Egypt, with special emphasis on the decline of the Ottoman Empire, the impact of the great powers, and the effects of nationalism, oil, and the religious dynamic.

HIST 101 Special Projects in World History (1- ) Study, interpretation, and discussion of special topics and problems in World history.

#### Integrative Studies General

IGEN 101 Myth, Memory and Realities\* (3) Examines a selected topic in American or World history and literature to understand how interpretations of the past have been constructed to explain the present. \*Not available for graduate credit.

### Anthropology

Sem. Hours

|   |   |
|---|---|
| FUNCTIONAL MAJOR REQUIREMENTS                           | 0 |
| SOSC 3010 Writing in the Social Sciences                | 3 |
| SOSC 4050 The Social Studies                            | 3 |
| HIST 1350 History of the U. S. to 1877                  | 3 |
| HIST 1351 History of the U. S. from 1877                | 3 |
| POLS 1510 American Government                           | 3 |
| POLS 2511 State Government                              | 3 |
| GEOG 2212 World Geography                               | 3 |
| ECON 1010 Principles of Macroeconomics                  | 3 |
| SOC 1800 General Sociology                              | 3 |
| Electives from the following                            | 6 |
| HIST 2400 History of the Early World                    | 3 |
| HIST 2401 History of the Early Modern World             | 3 |
| or  |   |
| HIST 2401 History of the Early Modern World             | 3 |
| HIST 2402 History of the Modern World                   | 3 |
| Upper-level elective in SOC or ANTH                     | 3 |
| Upper-level electives in American history               | 6 |
| Upper-level elective in world history                   | 6 |
| Upper-level elective in geography                       | 3 |
| Upper-level electives in at least two of the following: |   |
| GEOG, HIST, POLS, SOC, ANTH, or ECON                    | 9 |

## Women's Studies

### WOMEN'S STUDIES

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor (471)

|  |  | Sem. Hours |
|--|--|------------|
| MINOR REQUIREMENTS . . . . .           |  | 1-         |
| WS                                     | 1050 Introduction to Women's Studies . . . . .                   | 3          |
| WS                                     | 4910 Spec. Proj. in Women's Studies . . . . .                    | 3          |
| Electives from the following . . . . . |  | 9-10       |
| AE                                     | 1450 Valuing Differences: Discovering<br>Common Ground . . . . . | 1          |
| ANTH                                   | 4820 Sexual Dynamics & Culture . . . . .                         | 3          |
| CFD                                    | 1010 Individual & Family Relationships . . . . .                 | 3          |
| CJ                                     | 4403 Sexual Assault & the<br>Criminal Justice System . . . . .   | 3          |
| *COMM                                  | 4285 Women and Minorities in Media . . . . .                     | 3          |
| *COMM                                  | 4335 Gender Communications . . . . .                             | 3          |
| ENGL                                   | 2270 Fict. by Women Around the World . . . . .                   | 3          |
| ENGL                                   | 4560 British Women Writers . . . . .                             | 3          |
| ENGL                                   | 4660 Women Writers of the United States . . . . .                | 3          |
| HIST                                   | 4310 Women in America . . . . .                                  | 3          |
| HIST                                   | 4327 African American Women,<br>Gender & Girlhood . . . . .      | 3          |
| NUR                                    | 2020 Health: Women's Perspective . . . . .                       | 2          |
| NUR                                    | 4030 Human Sexuality . . . . .                                   | 2          |
| *NUR                                   | 4210 Advanced Concepts of Nursing &<br>Family Health . . . . .   | 3          |
| PSY                                    | 4320 Psychology of Women . . . . .                               | 2          |
| REL                                    | 2510 Gender & Religions . . . . .                                | 3          |
| SOC                                    | 4855 Sociology of Gender . . . . .                               | 3          |
| SOC                                    | 4865 Family Diversity . . . . .                                  | 3          |

\*\*Electives from the above list or as approved by the Women's Studies Coordinator 6

\*Course has prerequisite(s) not listed in the program.

\*\*Can include Special Projects courses in other programs.

WS 10 0 Introduction to Women's Studies (P) Provides an overview

of the interdisciplinary nature of the women's studies (\*\*Can i4.9u6.9978( aocus)0.0462( 51 ))TJ 66[ (\*\*up tosoal P, pchology)an P, economic-0.1221( (om poty an

## **FRENCH**

Major, Bachelor of Science Degree  
(43-319)

The graduate with a Bachelor of Science in French will use the knowledge and skills in the program to:

- Use French orally and in writing in a variety of informal and formal situations
- Comprehend a variety of authentic materials in French for personal and/or professional use

|  | Sem. Hours |
|--|------------|
| MINOR REQUIREMENTS . . . . .   | 1          |
| GER 1303 Intermediate German . . . . .   | 3          |
| GER 1304 German Readings . . . . .   | 3          |
| GER 2301 Advanced German Readings . . . . .  | 3          |
| GER 2323 German Conversation & Comp. . . . .   | 3          |
| GER 2362 German Civilization . . . . .   | 3          |
| Electives in 2000 level or higher German courses . . . . .                                   | 6          |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, 3 s.h. of Div. II C are fulfilled |            |

### GERMAN

Minor for a Bachelor's Degree  
 Except for a Bachelor of Science in Education Degree (2014)

|  | Sem. Hours |
|--|------------|
| MINOR REQUIREMENTS . . . . .                 | 1          |
| GER 1303 Intermediate German . . . . .       | 3          |
| GER 1304 German Readings . . . . .           | 3          |
| GER 2301 Advanced German Readings . . . . .  | 3          |
| GER 2323 German Conversation & Comp. . . . . | 3          |
| GER 2362 German Civilization . . . . .       | 3          |
| GER 3371 Survey of German Lit. I . . . . .   | 3          |
| GER 3372 Survey of German Lit. II . . . . .  | 3          |

### SPANISH

Major, Bachelor of Arts Degree  
 (42-338)

The graduate with a Bachelor of Arts in Spanish will use the knowledge and skills in the program to:

- Express himself or herself orally and in writing in a variety of informal and formal situations in Spanish.
- Comprehend a variety of authentic materials in Spanish for personal and/or professional use.
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks.
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.

|   | Sem. Hours |
|---|------------|
| MAJOR REQUIREMENTS . . . . .  | 1          |
| SPAN 1601 Elementary Spanish I . . . . .  | 3          |
| SPAN 1602 Elementary Spanish II . . . . .   | 3          |
| SPAN 2601 Intermediate Spanish I . . . . .  | 3          |
| SPAN 2602 Intermediate Spanish II . . . . .   | 3          |
| SPAN 2603 Spanish Conversation I . . . . .  | 3          |
| SPAN 3603 Spanish Conversation II . . . . .   | 3          |
| SPAN 3623 Spanish Composition . . . . .   | 3          |
| SPAN 3661 Spanish Civilization & Literature . . . . .   | 3          |
| SPAN 3662 Spanish American Civilization & Literature . . . . .                                | 3          |
| SPAN 4603 Advanced Readings & Oral Expression . . . . .                                       | 3          |
| SPAN 4623 Advanced Spanish Composition . . . . .  | 3          |
| Electives from the following . . . . .  | 9          |
| SPAN 4650 Introduction to Spanish for Business . . . . .                                      | 3          |
| SPAN 4665 Culture and Issues in the Contemporary Spanish-Speaking World . . . . .             | 3          |
| SPAN 4671 Cinema of the Spanish-Speaking World . . . . .                                      | 3          |
| SPAN 4680 Twentieth Century Literature of the Spanish-Speaking World . . . . .                | 3          |
| MINOR REQUIREMENTS . . . . .  | 1          |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) The major fulfills 3 s.h. of Div. II C . . . . . |            |
| MODERN LANGUAGE REQUIREMENT (fulfilled by major)  |            |
| FREE ELECTIVES . . . . .  | 1          |
| MINIMUM TOTAL . . . . .   | 1          |

### SPANISH

Major, Bachelor of Science Degree  
 (43-339)

The graduate with a Bachelor of Arts in Spanish will use the knowledge and skills in the program to:

- Express himself or herself orally and in writing in a variety of informal and formal situations in Spanish
- Comprehend a variety of authentic materials in Spanish for personal and/or professional use
- Demonstrate knowledge of linguistic elements, pronunciation and intonation, grammar, forms of discourse, and vocabulary to satisfy a variety of everyday tasks
- Engage in socially appropriate forms of communication
- Demonstrate an understanding of the target cultures in their geographical and historical contexts, including perspectives, practices, and products.

|   | Sem. Hours |
|---|------------|
| MAJOR REQUIREMENTS . . . . .  | 1          |
| SPAN 1601 Elementary Spanish I . . . . .  | 3          |
| SPAN 1602 Elementary Spanish II . . . . .                                       | 3          |
| SPAN 2601 Intermediate Spanish I . . . . .                                      | 3          |
| SPAN 2602 Intermediate Spanish II . . . . .                                     | 3          |
| SPAN 2603 Spanish Conversation I . . . . .                                      | 3          |
| SPAN 3603 Spanish Conversation II . . . . .                                     | 3          |
| SPAN 3623 Spanish Composition . . . . .   | 3          |
| SPAN 3661 Spanish Civilization & Literature . . . . .                           | 3          |
| SPAN 3662 Spanish American Civilization & Literature . . . . .                  | 3          |
| SPAN 4603 Advanced Readings & Oral Expression . . . . .                         | 3          |
| SPAN 4623 Adv. Spanish Composition . . . . .                                    | 3          |
| Electives from the following . . . . .  | 9          |
| SPAN 4650 Introduction to Spanish for Business . . . . .                        | 3          |
| SPAN 4665 Culture & Issues in the Contemporary Spanish-Speaking World . . . . . | 3          |
| SPAN 4671 Cinema of the Spanish-Speaking World . . . . .                        | 3          |
| SPAN 4680 Twentieth Century Literature of the Spanish-Speaking World . . . . .  | 3          |
| MINOR REQUIREMENTS . . . . .  | 1          |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43)                                    |            |

|  |      |   |   |
|--|------|---|---|
| SPAN                                     | 3661 | Spanish Civilization & Literature . . . . .                             | 3 |
| SPAN                                     | 3662 | Spanish American Civilization & Literature                              | 3 |
| SPAN                                     | 4603 | Advanced Readings and Oral Expression .                                 | 3 |
| SPAN                                     | 4623 | Adv. Spanish Composition . . . . .                                      | 3 |
| Electives from the following . . . . . 9 |      |   |   |
| SPAN                                     | 4650 | Introduction to Spanish for Business . . . . .                          | 3 |
| SPAN                                     | 4665 | Culture & Issues in the<br>Contemporary Spanish-Speaking World          | 3 |
| SPAN                                     | 4671 | Cinema of the Spanish-Speaking World                                    | 3 |
| SPAN                                     | 4680 | Twentieth Century Literature of the<br>Spanish-Speaking World . . . . . | 3 |

MINOR REQUIREMENTS . . . . . 1 -  
GENERAL EDUCATION REQUIREMENTS (pages 34-43) (The major  
fulfills 3 s.h. of Div. II C; in the professional education requirements,  
ICAP 4468 fulfills 3 s.h. of Div. IV B) . . . . .

Secondary Education students must have one course in a  
physical or earth science and one in a biological science in Div. II A.

|      |      |                                |   |
|------|------|--------------------------------|---|
| HIST | 1350 | Div. II B or                   |   |
| HIST | 1351 | Div. II B (required) . . . . . | 3 |
| POLS | 1510 | Div. II B (required) . . . . . | 3 |
| PSY  | 4230 | Psy. of Adolescence . . . . .  | 3 |

Secondary Education students will be allowed to substitute  
PSY 4230 to fulfill 3 s.h. in Div. II B. (page 115) . . . . .

**General**

ML 10 Special Projects in Modern Languages (1-2) Small-group  
instruction at the introductory level.  
ML 010 Foreign Studies in Language (1- ) Credit granted for study  
in a departmentally-approved program in a foreign country. May be  
repeated for a maximum of 12 semester hours.  
ML 010 Foreign Studies in Language (French) (German) (Spanish)  
(1- ) Credit granted for study in a UCM approved program in a  
foreign country. Freshmen and sophomores permitted to enroll  
with consent of the Chair of the Department of Modern Languages.

**SPANISH**

Minor for a Bachelor's Degree  
Certification to teach Spanish in grades K-9 is available only on a  
Bachelor of Science in Education Degree with an elementary education  
functional major 1-6 or middle school-junior high major  
(2015)

Sem. Hours

|   |      |   |   |
|---|------|---|---|
| MINOR REQUIREMENTS . . . . . /          |      |   |   |
| SPAN                                    | 1601 | Elementary Spanish I . . . . .  | 3 |
| SPAN                                    | 1602 | Elementary Spanish II . . . . .   | 3 |
| SPAN                                    | 2601 | Intermediate Spanish I . . . . .  | 3 |
| SPAN                                    | 2602 | Intermediate Spanish II . . . . .                                       | 3 |
| SPAN                                    | 2603 | Spanish Conversation I . . . . .  | 3 |
| SPAN                                    | 3603 | Spanish Conversation II . . . . .                                       | 3 |
| SPAN                                    | 3623 | Spanish Composition . . . . .   | 3 |
| SPAN                                    | 3661 | Spanish Civilization & Literature, 3 or                                 |   |
| SPAN                                    | 3662 | Spanish American Civ. & Lit., 3 . . . . .                               | 3 |
| Elective from the following . . . . . 3 |      |   |   |
| SPAN                                    | 4603 | Advanced Readings & Oral Expressions                                    | 3 |
| SPAN                                    | 4623 | Advanced Spanish Composition . . . . .                                  | 3 |
| SPAN                                    | 4650 | Introduction to Spanish for Business . . .                              | 3 |
| SPAN                                    | 4665 | Culture & Issues in the<br>Contemporary Spanish-Speaking World          | 3 |
| SPAN                                    | 4671 | Cinema of the Spanish-Speaking World                                    | 3 |
| SPAN                                    | 4680 | Twentieth Century Literature of<br>the Spanish-Speaking World . . . . . | 3 |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor,  
3 s.h. of Div. II C are fulfilled

**WORLD LANGUAGE**

Minor for a Bachelor's Degree  
(252)

Sem. Hours

|  |  |  |  |
|--|--|--|--|
| MINOR REQUIREMENTS . . . . . /   |  |  |  |
| Students must take courses in 3 different languages.   |  |  |  |
| Two courses in one language  |  |  |  |
| (CHIN, FREN, GER, SPAN, ML) . . . . . 6  |  |  |  |
| Two courses in a second language   |  |  |  |
| (CHIN, FREN, GER, SPAN, ML) . . . . . 6  |  |  |  |
| Five courses in a third language, at least one cours at the<br>upper-division level (FREN, GER, SPAN, ML) . . . . . 15 |  |  |  |
| Non-native speakers of English may count 3000 or 4000 level<br>English courses as one of their three languages.        |  |  |  |



FREN 3243 French Phonetics\* (3) The sound system of the French language: analysis of problems encountered by a native English speaker in learning spoken French. Prerequisite: FREN 3243 or equivalent. \*Not available for graduate credit.

FREN 3223 Commercial French\* (3) French commercial terminology, stressing the difference between French and American forms and practices. Prerequisite: FREN 3223 or equivalent. \*Not available for graduate credit.

FREN 3261 The Contemporary French-Speaking World\* (3) An overview of contemporary France and other French-speaking nations. Prerequisites: FREN 3261 or FREN 3262, or equivalent. \*Not available for graduate credit.

FREN 3262 French Literature of the Nineteenth Century\* (3) Romanticism, realism, and naturalism. Analysis of texts and literary theories. Prerequisite: 6 semester hours of 3000 level French courses. \*Not available for graduate credit.

FREN 3263 French Literature of the Twentieth Century\* (3) Symbolism, surrealism, and existentialism in prose, poetry and theatre. Prerequisite: 6 semester hours of 3000 level French courses. \*Not available for graduate credit.

FREN 3264 French Translation\* (3) Commercial and technical



|   |    |   |
|---|----|---|
| MINOR REQUIREMENTS  | 1  | - |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the major, MUS 3211 and MUS 3212 are allowed to fulfill 3 s.h. of Div. II C; the Modern Language Requirement fulfills 3 s.h. of Div. II C |    |   |
| MUS 1225 Div. II D (required)   | 3  |   |
| MODERN LANGUAGE REQUIREMENT   | ?  | - |
| Refer to Bachelor's Degree Requirements section for fulfillment options.  |    |   |
| FREE ELECTIVES  | 11 | - |
| MINIMUM TOTAL   | 1  |   |

**MUSIC**

Functional Major, B.M. Degree (44-472)

The graduate with a Bachelor of Music degree will use the knowledge and skills obtained in the program to:

- Understand the basic elements and structures of music history, theory, and performance literature.
- Understand music's relationship to the other arts, and how the arts relate to mankind.
- Use technology in appropriate music applications.
- Communicate the intellectual (thinking), emotional, and aesthetic (valuing) qualities of music to a diverse society.
- Perform at the highest possible level in his/her primary performance medium.
- Articulate essential elements of music and music performance.
- Demonstrate functional piano performance skills.

Sem. Hours

|                               |   |   |
|-------------------------------|---|---|
| FUNCTIONAL MAJOR REQUIREMENTS | / | - |
| MUS 1000 Recital Attendance   | 0 |   |
| MUS 1111 Theory I             | 3 |   |
| MUS 1112 Theory II            | 3 |   |

|          |                                   |     |
|----------|-----------------------------------|-----|
| MUS 2902 | Brass Class II                    | 1   |
| MUS 2950 | Percussion Class                  | 1   |
|          | Major instrument, 1000 level      | 4   |
|          | Major instrument, 3000 level      | 4.5 |
|          | Major large instrumental ensemble | 7   |

Wind/Percussion students must complete seven (7) separate semesters of major large instrumental ensemble to include:  
 3 semester hours in MUS 1005,  
 2 semester hours in MUS 3000 and/or MUS 1010, &

MUS 10 / String Ensemble (1)

MUS 10 Chamber Winds and Percussion (1)

MUS 0 Music Technology I ( ) An introduction to the theory and usage of audio recording/reproduction components as well as the application of informed musical judgment to the music production process. Laboratory included. Prerequisites: completion of MUS 1040, MUS 1111, and MUS 1121 with a grade of C or better, as well as full admission into the Bachelor of Music degree program. An additional fee is associated with this course.

MUS 0 Music Technology II ( ) Intermediate audio production focusing on computer-based recording and editing, with continued refinement of student ability to bring informed musical judgment to the mixing process. Laboratory included. Prerequisites: completion of MUS 2040 and MUS 1122 with a grade of C or better. An additional fee is associated with this course.

MUS 000 Symphonic Wind Ensemble (1) A select band which performs original band literature and transcriptions of many famous works at frequent appearances. Membership selected by audition. May be repeated.

MUS 0 University Symphony Orchestra (1) Performs concerts of standard and contemporary literature. grade of apn6-ocusi764ure

MUS 2181 Advanced Jazz Improvisation ( ) Advanced study of jazz improvisation techniques in applied, private lessons. May be repeated.

Prerequisite: MUS 2181 or consent of instructor.

MUS 2182 Jazz-Commercial Arranging ( ) Characteristics of instruments normally found in jazz ensemble and commercial performing groups. Emphasis on style and voicing problems in these idioms. Writing projects for combo and jazz ensemble. Score study.

Prerequisites: MUS 2112 and MUS 2122.

MUS 2183 Advanced Jazz-Commercial Arranging ( ) Private lessons

MUS 1 0 Piano Class II (1) A continuation of MUS 1501.

Prerequisite: MUS 1501.

MUS 1 0/ Secondary Keyboard Lessons (1) Private lesson study in any keyboard instrument listed in this catalog. Does not count for any music major or minor as the principal performing area. Prerequisite: initial enrollment by perm/R33 9 Tfl(7913)

### Woodwind Instruments

MUS 1 0/ Secondary Woodwind Lessons (1) Private lesson study in any woodwind instrument listed in this catalog. Does not count for any music major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. May be repeated.

The course description is applicable for the following woodwind instruments courses: breath control; fundamentals of mechanism, embouchure; proper tonal color; technical exercises; easy solos; supervised chamber ensemble rehearsals. In addition to weekly lessons, attendance at biweekly studio classes is required. May be repeated. Prerequisite: Successful completion of entrance examination required for initial enrollment.

MUS 1 10 Flute I (1)

MUS 1 1 Clarinet I (1)

MUS 1 0 Oboe I (1)

MUS 1 Saxophone I (1)

MUS 1 ? 0 Bassoon I (1)

MUS 01 Woodwind Class I (1) A laboratory course in the fundamentals of playing and teaching the clarinet and the saxophone.

MUS 0 Woodwind Class II (1) A laboratory course in the fundamentals of playing and teaching the oboe, the bassoon, and the flute.

The course description is applicable for all applied woodwind instruments courses: advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. May be repeated.

Prerequisite: successful completion of lower level credit as determined by departmental examination.

MUS? 10 Flute II (1. )

MUS? 1 Clarinet II (1. )

MUS? 0 Oboe II (1. )

MUS? Saxophone II (1. )

MUS? ? 0 Bassoon II (1. )

### Brass and Percussion Instruments

MUS 1 0/ Secondary Brass and Percussion Lessons (1) Private lesson study in any brass instrument listed in this catalog or in percussion. Does not count for any major or minor as the principal performing area. Prerequisite: initial enrollment by permission of applied area faculty. May be repeated.

The course description is applicable for the following brass instruments courses: breath control; fundamentals of mechanism, embouchure; proper tonal color; technical exercises; easy solos; supervised chamber ensemble rehearsals. In addition to weekly lessons, attendance at biweekly studio classes is required. May be repeated. Prerequisite: Successful completion of entrance examination required for initial enrollment.

MUS 1 10 Trumpet I (1)

MUS 1 1 French Horn I (1)

MUS 1 0 Trombone I (1)

MUS 1 Baritone Horn I (1)

MUS 1 ? 0 Tuba I (1)

MUS 1 0 Percussion I (1) Fundamental skills in rudimental and concert snare drum techniques. Study of the keyboard percussion instruments and an introduction to the timpani. In addition to weekly lessons, attendance at biweekly studio classes is required. May be repeated. Prerequisite: Successful completion of entrance examination required for initial enrollment.

MUS 01 Brass Class I (1) A laboratory course in the fundamentals of playing and teaching the trumpet and French horn.

MUS 0 Brass Class II (1) A laboratory class in the fundamentals of playing and teaching the baritone horn, the trombone, and the tuba.

MUS 0 Percussion Class (1) A laboratory course in the basic techniques of playing and teaching the instruments of percussion.

The course description is applicable for the following applied brass instruments courses: advanced technical studies; standard solos; chamber ensemble playing. In addition to weekly lessons, attendance at biweekly studio classes is required. May be repeated. Prerequisite: successful completion of lower level credit as determined by departmental examination.

MUS? 10 Trumpet II (1. )

MUS? 1 French Horn II (1. )

MUS? 0 Trombone II (1. )

MUS? Baritone Horn II (1. )

MUS? ? 0 Tuba II (1. )

MUS? 0 Percussion II (1. ) Advanced study of snare drum, keyboard, percussion, and timpani, as well as an emphasis in performance literature. In addition to weekly lessons, attendance at biweekly studio classes is required. May be repeated. Prerequisite: successful completion of lower level credit as determined by departmental examination.



# Political Science and Geography

## Political Science

### POLITICAL SCIENCE

Major, Bachelor of Arts Degree  
(42-425)

The graduate with a Bachelor of Arts degree in Political Science will use the knowledge and skills obtained in the program to:

- Understand individual rights and responsibilities in a democratic system
- Understand and explain the complexities of politics in an international community
- Comprehend alternative perspectives on political values and behavior, political cultures, institutions, policy making, theory, jurisprudence, and civil liberties and rights
- Think critically and to construct logical arguments concerning institutions and processes of government and contemporary public policy issues
- Communicate effectively about politics in both written and oral forms
- Prepare for successful careers in public, private and non-profit service sector
- Qualify for post-graduate education.

Sem. Hours

MAJOR REQUIREMENTS .....??

POLS 1 00 Introduction to Political Science (P) A survey of the determinants defining the relationship of the individual to the political environment and the political system. The primary focus is on the three fundamental levels of politics: the individual, the state, and the international community.

POLS 1 10 American Government (P)



**GEOG 100 Physical Geography (3)** The areal distribution of the major elements of the physical environment relevant to man's occupancy of the earth's surface.

**GEOG 111 Geography of North America (3)** Physical and cultural features of the United States and Canada, based on regional concepts.

**GEOG 112 World Geography (3)** A survey of the world's major regions, examining their unique peoples, cultures, economies, and physical environments.

**GEOG 113 Economic Geography (3)** Influence of geographic factors upon economic life, including such topics as natural resources



### Special Projects

PSY 4900 Special Projects in Psychology (1-2) Individual or group study of problems in special areas of interest. May be repeated for a maximum of 5 semester hours.



|  | Sem. Hours |
|--|------------|
| MAJOR REQUIREMENTS . . . . . ?   |            |
| THEA 1400 Script Analysis . . . . .                                      | 3          |
| THEA 1500 Acting . . . . .   | 3          |
| THEA 1510 Stage Movement . . . . .                                       | 3          |
| THEA 1520 Stage Voice . . . . .  | 3          |
| THEA 1600 Stagecraft . . . . .   | 3          |
| THEA 2610 Design Fundamentals . . . . .                                  | 3          |
| THEA 3630 Studio Theatre I . . . . .                                     | 1          |
| THEA 3700 Directing . . . . .  | 3          |
| THEA 4730 Studio Theatre II . . . . .                                    | 1          |
| THEA 4400 Lit. & History of the Theatre I . . . . .                      | 3          |
| THEA 4420 Lit. & History of the Theatre II . . . . .                     | 3          |
| THEA 3600 Scenic Design, 3 or  |            |
| THEA 3610 Costume Design, 3 or   |            |
| THEA 3620 Lighting Design, 3 . . . . .                                   | 3          |
| Electives in theatre . . . . .   | 3          |
| MINOR REQUIREMENTS . . . . . 1 -   |            |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . .                   |            |
| THEA 1100 Div. IB (required) . . . . .                                   | 3          |
| IGEN Div.IVA (required)  |            |
| IGEN 3116 3 or   |            |
| IGEN 3224 3 or   |            |
| IGEN 3232 3 or   |            |
| IGEN 4234 3 or   |            |
| IGEN 4244 3, . . . . .   | 3          |
| MODERN LANGUAGE REQUIREMENT . . . . . ? -                                |            |
| Refer to Bachelor's Degree Requirements section for fulfillment options. |            |
| FREE ELECTIVES . . . . . 1 <sup>?</sup> - 0                              |            |
| MINIMUM TOTAL . . . . . 1  |            |

|  | Sem. Hours |
|--|------------|
| Performance  |            |
| THEA 1510 Stage Movement . . . . .                                   | 3          |
| THEA 1520 Stage Voice . . . . .                                      | 3          |
| THEA 1610 Stage Make-Up . . . . .                                    | 3          |
| THEA 4710 Advanced Directing . . . . .                               | 3          |
| Elect 6 hours from the following . . . . .                           | 6          |
| THEA 3500 Advanced Scene Study . . . . .                             | 3          |
| THEA 4500 Advanced Acting . . . . .                                  | 3          |
| THEA 4510 Period Acting Styles . . . . .                             | 3          |
| Electives from the Design/Technology concentration listing . . . . . | 9          |
| Design / Technology  |            |
| THEA 2620 Costume Technology . . . . .                               | 3          |
| THEA 3600 Scene Design . . . . .                                     | 3          |
| THEA 3610 Costume Design . . . . .                                   | 3          |
| THEA 3620 Lighting Design . . . . .                                  | 3          |
| THEA 4600 Advanced Technical Theatre . . . . .                       | 3          |
| THEA 4610 Adv. Stage Lighting & Sound . . . . .                      | 3          |
| Electives from the Performance concentration listing . . . . .       | 9          |
| Departmentally approved supporting courses . . . . .                 | 9          |
| MINOR NOT REQUIRED   |            |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . .               |            |
| THEA 1100 Div. IB (required) . . . . .                               | 3          |
| IGEN Div.IVA (required)  |            |
| IGEN 3116 3 or   |            |
| IGEN 3224 3 or   |            |
| IGEN 3232 3 or   |            |
| IGEN 4234 3 or   |            |
| IGEN 4244 3, . . . . .   | 3          |
| FREE ELECTIVES . . . . . 10  |            |
| MINIMUM TOTAL . . . . . 1  |            |

**THEATRE**

Functional Major, Bachelor of Fine Arts Degree (47-366)  
 The graduate with a Bachelor of Fine Arts degree in Theatre will use the knowledge and skills obtained in the program to:

- Communicate and collaborate effectively in the interactive and creative process of theatre.
- Demonstrate a working knowledge of the historical, cultural, and stylistic dimensions of drama and theatre.
- Utilize critical thinking skills in order to analyze and interpret a script for the purpose of developing a concept and systematic plan for the production of a play.
- Form, communicate, and defend value judgments about quality and aesthetics in works of theatre.
- Demonstrate technical proficiency in the areas of acting and directing in order to create and present theatrical performances.
- Demonstrate a basic proficiency in the areas of theatre design and technology in order to create and present theatrical productions.
- Technical direct and direct one-act plays for public performance and successfully fulfill significant production assignments in the department's mainstage and/or children's theatre series.

|  | Sem. Hours |
|--|------------|
| FUNCTIONAL MAJOR REQUIREMENTS . . . . .              |            |
| THEA 4300 Professional Practices . . . . .           | 3          |
| THEA 4310 Principles of Theatre Management . . . . . | 3          |
| THEA 1400 Script Analysis . . . . .                  | 3          |
| THEA 4400 Lit. & History of the Theatre I . . . . .  | 3          |
| THEA 4420 Lit. & History of the Theatre II . . . . . | 3          |
| THEA 1500 Acting . . . . .                           | 3          |
| THEA 1600 Stagecraft . . . . .                       | 3          |
| THEA 2610 Design Fundamentals . . . . .              | 3          |
| THEA 3630 Studio Theatre I . . . . .                 | 1          |
| THEA 3700 Directing . . . . .                        | 3          |
| THEA 4730 Studio Theatre II . . . . .                | 1          |
| THEA 4910 Senior Showcase . . . . .                  | 1          |
| Elect one of the following concentrations . . . . .  | 27         |

**THEATRE**

Minor for a Bachelor's Degree  
 UCM does not confer teacher certification for this minor (365)

|   | Sem. Hours |
|---|------------|
| MINOR REQUIREMENTS . . . . . ?                          |            |
| THEA 1100 Oral Interpretation . . . . .                 | 3          |
| THEA 1400 Script Analysis . . . . .                     | 3          |
| THEA 1500 Acting . . . . .                              | 3          |
| THEA 1600 Stagecraft . . . . .                          | 3          |
| THEA 3700 Directing . . . . .                           | 3          |
| THEA 4400 Lit. & History of the Theatre I, 3 or         |            |
| THEA 4420 Lit. & History of the Theatre II, 3 . . . . . | 3          |
| Electives in theatre . . . . .                          | 5          |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, THEA 1100 fulfills 3 s.h. of Div. I B.

**Interpretation**

THEA 1100 Oral Interpretation ( ) Skills used to convey the intellectual, emotional, and aesthetic values of literature to an audience.

**Children's Theatre**

THEA 0 Children's Theatre ( ) The study and practice of producing plays for a children's audience. Only offered Spring semester.

**Production**

THEA 200 Professional Practices (1- ) Extended, supervised experiences in any phase of theatre production. Credit allowed will depend upon the nature and scope of the assignment. May be repeated for a maximum of 10 semester hours. Prerequisite: consent.  
 THEA 10 Principles of Theatre Management ( ) An in-depth examination of the business theories and practices in modern educational, community, and professional theatre. Box office and publicity work are required.



## History and Literature

THEA 1 00 Script Analysis (1) Structural and performance dimensions of the playscript. It will focus on the role of the various theatrical artists in developing an effective methodology and application for translating the playwright's script into a public performance.

THEA 1 00 Theatre in Western Civilization (1) An introductory examination of the various contemporary theatre arts with a survey of the drama and the developments of major theatrical periods in western civilization.

THEA 1 00 Literature and History of the Theatre I (1) Works and writers for the stage from the beginning to 1700. The development of theatrical modes and presentation and their influences upon the drama of each period. Only offered Fall semester.

THEA 1 00 Literature and History of the Theatre II (1) Works and writers for the stage from 1700 to the present. The development of theatrical modes and presentation and their influences upon the drama of each period. Only offered Spring semester.

## Acting

THEA 1 00 Acting (1) An extensive study in the theories and techniques of acting.

THEA 1 10 Stage Movement (1) An extensive study of the body's use in theatrical performance; this class will work with expanding the imagination of bodily expression.

THEA 1 0 Stage Voice (1) Course is designed to improve and enhance the skills necessary for excellent stage vocal production. Exercises will focus on breath, resonance, articulation and speech dynamics.

THEA 1 00 Advanced Scene Study (1) The course is designed to enhance the actor's proficiency with character development within the genre of realism. Prerequisite: THEA 1500.

THEA 1 00 Advanced Acting (1) An intensified study of characterization centering around the study of difficult roles, and the adaptation of acting techniques to various styles of acting. May be repeated for a maximum of 6 credit hours. Prerequisite: THEA 1500.

THEA 1 10 Period Acting Styles (1) Examines the craft, methodology, resources and practice of acting in non-realistic (classical and contemporary) dramatic literature. Emphasis on analysis of stylistic determinants in dramatic literature. May be repeated for a maximum of 6 hours.

## Crafts

THEA 1 00 Stagecraft (1) Lectures and laboratory experiences in the construction, painting, rigging and shifting of stage scenery. Scene shop work arranged as a portion of the course.

THEA 1 10 Stage Make-up (1) Materials and methods of application of make-up artistry for cosmetic and character effects on stage.

THEA 1 10 Design Fundamentals (1) Survey of the concepts, applications, and techniques of theatrical design through study of the design areas in lighting, costume, scenic, make-up, hair, sound and properties.

THEA 1 0 Costume Technology (1) Lectures and laboratory experience in sewing, fabric modification, and the craftwork of costume construction. An additional fee is associated with this course.

THEA 1 10 Costume Design (1) Theory and practice of costume design as applied to theatrical, musical and operatic productions of live theatre.

THEA 1 0 Lighting Design (1) Theory and practice of lighting design as it applies to the modern theatrical performance.

THEA 1 10 Studio Theatre I (1) Technical direction of a play in the Studio Theatre series at approximately the junior class level. Prerequisites: THEA 1500, THEA 1600, THEA 3700 and departmental consent.

THEA 1 00 Advanced Technical Theatre (1) Advanced techniques in scenery construction and painting, plastics, and selection of stage equipment. Laboratory exercises will be required. Prerequisite: THEA 1600.

THEA 1 10 Advanced Stage Lighting and Sound (1) Extensive investigation of stage lighting history and practices in the modern theatre and the study and use of live and recorded sound as a theatrical art. Only offered Fall semester. Prerequisite: THEA 1600.

## Directing

THEA 1 00 Directing (1) Problems, principles, and employment of various directing styles, and the adaptation of directing techniques to various physical facilities. Prerequisites: THEA 1500 and THEA 1600. THEA 1 10 Advanced Directing (1) Extensive examination of special directing problems with comedy, tragedy, period drama, and the musical show in arena and proscenium theatres. May be repeated for a maximum of 6 credit hours. Prerequisite: THEA 3700.

THEA 1 0 Studio Theatre II\* (1) Direction of a play in the Studio Theatre series at approximately the senior class level. Prerequisite: THEA 3630 and departmental consent. \*Not available for graduate credit.

## Playwriting

THEA 1 00 Playwriting (1) Dramatic writing, dramatic theory, style dialogue exercises, characterization, with opportunity for the production of student plays. May be repeated for a maximum of 3 semester hours.

## General

THEA 1 00 Theatre Practicum (1) Supervised work on selected problems in play direction, acting, scene design, scene construction, stage lighting, and business management. May be repeated for a maximum of 3 semester hours. Prerequisite: consent.

THEA 1 00 Special Topics in Theatre (1) Individual study and research on topics that are of special interest to the student. May be repeated for a maximum of 6 semester hours. Prerequisite: consent.

THEA 1 00 Repertory Theatre (1) Practical experience in theatre through participation in a summer repertory season of plays as an actor, a technician, or management personnel. May be repeated for a maximum of 6 semester hours. Prerequisite: enrollment by department approval only.

THEA 1 10 Senior Showcase (1) Senior Theatre Majors will present a public showcase performance or portfolio presentation. Course is part of the formative assessment process within Theatre Department.

THEA 1 0 Secondary Field Experience II\* (1) Experiences in the secondary school classroom that provide the teacher candidate more advanced involvement in the teaching-learning process. Prerequisites:

# Harmon College of Business Administration

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# Computer Information Systems

## COMPUTER INFORMATION SYSTEMS

Functional Major, Bachelor of Science in Business Administration Degree (46-534)

The graduate with a Bachelor of Science degree in Business Administration with a functional major in Computer Information Systems will use the knowledge and skills obtained in the program to:

- Demonstrate knowledge of professional and ethical expectations in the work place.
- Use productivity software (word processing, spreadsheet, and database) effectively and manage hardware and software resources by applying knowledge of operating systems and environments.
- Develop application software using skills in appropriate business programming languages (e.g. Java, Visual Basic, COBOL).
- Develop and maintain databases using theoretical and applied knowledge of relational database management systems (e.g. Oracle, SQL Server).
- Develop and maintain telecommunications networks using theoretical and applied knowledge of telecommunications (e.g. Novell, Windows/NT).
- Analyze business problems and develop solutions by applying critical thinking skills within the systems development process (e.g. The Systems Development Life Cycle [SDLC], Prototyping).
- Be a team player by applying group process skills; participate fully in group discussion and activities, lead/follow when appropriate; provide support and collaboration when needed.
- Access information resources and communicate effectively using a variety of methods: oral, written, and electronic.
- Design and construct client/server applications by using appropriate tools and architectures and develop effective graphical user interfaces (GUIs).
- Apply project management skills when creating a business solution within an information architecture.

Sem. Hours

### FUNCTIONAL MAJOR REQUIREMENTS

|            |                                    |   |
|------------|------------------------------------|---|
| CIS 1605   | Business Application Software      | 2 |
| CIS 2605   | Programming With Visual Basic.net  | 3 |
| CIS 2615   | Introduction to JAVA               | 3 |
| CIS 2665   | Prin. of Data Comm. & LAN          | 3 |
| CIS 3630   | Management Information Systems     | 3 |
| CIS 3650   | Database Management Systems        | 3 |
| CIS 3660   | Anlys. & Des. of Comp. Infor. Sys. | 3 |
| CIS 4690   | Systems Architecture & Development | 3 |
| *ACCT 2101 | Principles of Financial Acct.      | 3 |
| *ACCT 2102 | Principles of Managerial Acct.     | 3 |
| *ECON 1011 | Principles of Microeconomics       | 3 |
| *FIN 2801  | Business Statistics I              | 3 |
| FIN 3801   | Business Statistics II             | 3 |
| FIN 3850   | Principles of Finance              | 3 |
| MGT 3315   | Management of Organizations        | 3 |
| MGT 3325   | Business Communications            | 3 |
| MGT 3360   | Production/Operations Mgt.         | 3 |
| MKT 3405   | Marketing Policy                   | 3 |
| *BLAW 2720 | Legal Environment of Business      | 3 |

Three courses from one of the two following tracks

|                      |                                     |   |
|----------------------|-------------------------------------|---|
| Software Development |                                     |   |
| CIS 3670             | User Interface Design               | 3 |
| CIS 4680             | Data Resource Mgt.                  | 3 |
| CIS 4660             | Appl. Dev. Using JAVA, 3 or         |   |
| CIS 4670             | Appl. Dev. Using VB.net, 3          | 3 |
| Networking           |                                     |   |
| CIS 3665             | Data Comm. Technologies             | 3 |
| CIS 4665             | Data Com. & Dist. Data Proc.        | 3 |
| CIS 4685             | Network Planning, Design & Security | 3 |

Electives

|   |                              |   |
|---|------------------------------|---|
| (At least 9 hours must be taken from the following) |                              |   |
| CIS 3655  | COBOL Programming            | 3 |
| CIS 3695  | Intern. in Comp. Infor. Sys. | 3 |

|          |                                    |   |
|----------|------------------------------------|---|
| CIS 4610 | Special Projects                   | 3 |
| CIS 4635 | Seminar in Bus. Comp. Appl.        | 3 |
| CIS 4655 | Software Engineering               | 3 |
| CIS 4667 | Cont. Voice & Data Sys.,           | 3 |
| CIS 4695 | Adv. Prog. in C/C++                | 3 |
| CIS 3685 | Integrative Bus. Exp. Pract., 3 or |   |
| MKT 3485 | Integrative Bus. Exp. Pract., 3 or |   |
| MGT 3385 | Integrative Bus. Exp. Pract., 3,   | 3 |

Any CIS course in the tracks (prerequisites apply).

Any ET courses approved by the department.

### MINOR NOT REQUIRED

### GENERAL EDUCATION REQUIREMENTS (pages 34-43)

|            |                      |   |
|------------|----------------------|---|
| COMM 1000  | Div. I B (required)  | 3 |
| *MATH 1111 | Div. I C (required)  | 3 |
| *BTE 1210  | Div. II A (required) | 2 |
| *ECON 1010 | Div. II B (required) | 3 |
| PSY 1100   | Div. II B or         |   |
| SOC 1800   | Div. II B (required) | 3 |
| ICAP 4357  | Div. IV B (required) | 3 |

### MINIMUM TOTAL

\*Students expecting to receive the B.S.B.A. Degree must seek admission to this program upon the completion of a minimum of 41 semester hours of credit including ACCT 2101, ACCT 2102, BLAW 2720, BTE 1210, ECON 1010, ECON 1011, FIN 2801, and MATH 1111. See page 95 for the Statement of Policy on Admission to a B.S.B.A. Degree program.

## COMPUTER INFORMATION SYSTEMS

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor. (535)

Sem. Hours

### MINOR REQUIREMENTS

|           |  |   |
|-----------|--|---|
| CIS 1605  | Business Application Software                            | 2 |
| CIS 2605  | Programming With Visual Basic.net                        | 3 |
| CIS 2615  | Introduction to JAVA                                     | 3 |
| CIS 2665  | Principles of Data Communication & Local Area Networking | 3 |
| CIS 3650  | Database Mgt. Systems, 3 or                              |   |
| CIS 3660  | Analysis & Design of Computer Information Systems, 3     | 3 |
| ACCT 2101 | Principles of Financial Acct.                            | 3 |
| ACCT 2102 | Principles of Managerial Acct.                           | 3 |
| BTE 1210  | Essentials of Managing Info.                             | 2 |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor, BTE 1210 fulfills 2 s.h. of Div. II A.

## COMPUTER INFORMATION SYSTEMS

Associate in Science Degree

Inquiries about the status of this program should be directed to the chair of the Department of Computer Information Systems.

CIS 1 00 Principles of Computer Information Systems ( ) Provides a working knowledge of computer information systems. Hands-on experience is gained in major microcomputer software packages including operating systems, word processing, spreadsheets, and databases.

CIS 1 01 Business Information Technology ( ) Provides information about information technology related careers, development of group/team building skills, communication skills, and hands-on experience in solving business problems using information technology.

CIS 1 0 Business Application Software ( ) Solving business problems with a Windows-based operating system/environment as well as word processing, presentation software, spreadsheet software, and database applications. Prerequisite: BTE 1210. An additional fee is associated with this course.

CIS 2600 Programming With Visual Basic.net (3) Introduces fundamental concepts and implementations of Programming Using Visual Basic.NET. It focuses on Windows form applications covering aspects such as development of Graphic User Interface, control structures In VB.NET, and data processing. The course also covers the object-oriented aspects of programming such as writing classes, using objects, inheritance and polymorphism. Hands-on learning is emphasized with a focus on the development of applications for business problems. An additional fee is associated with this course.

CIS 2601 Introduction to JAVA (3) Fundamental principles for the design and implementation of programs using JAVA programming language to develop systems and applications programs. Flexibility portability/platform independence, support for object-orientation and the availability of classes to handle complex programming tasks make JAVA an ideal choice for software development. The course adopts a hands-on approach and entails extensive programming. Prerequisite: CIS 2605. An additional fee is associated with this course.

CIS 2602 Principles of Data Communications and Local Area Networking (3) Overview of the fundamental concepts needed to develop and work with a data communications system. Hardware, software, network topology, network design and implementation is covered with a particular emphasis on the application of theory to solving business data communication needs. Prerequisite: CIS 1605.

CIS 2603 Management Information Systems (3) This course will focus on topics that help general managers make better Information System and/or Information Technology decisions. Often general managers must participate in the process of integrating IS/IT into the organization, and need knowledge of IS methods to interact with other IS/IT managers and employees effectively. Cases and actual hands-on applications are used to illustrate the importance of aligning end users and information resources with corporate resources and strategy. Ethical issues such as information privacy, access, and accuracy will be included. IBE section will evaluate and present a solution to a real life IT/IS problem, as determined by the IBE company plan. Prerequisites: ACCT 2101, CIS 1605 or ACCT 2110.

CIS 2604 Database Management Systems (3) Principles and fundamental concepts of relational database, including relational database design, implementation and management. Special emphasis is placed on data modeling, data normalization, database design and implementation with structured query language (SQL). Prerequisite: CIS 3630. An additional fee is associated with this course.

CIS 2605 COBOL Programming (3) Major emphasis on the developing of logical solutions to business problems. The development of programs on on-line terminals with job control and an overview of architecture of the latest IBM systems. Processing business data using COBOL (Common Business Oriented Language) on mainframe IBM systems. Prerequisites: CIS 3650.

CIS 2606 Analysis and Design of Computer Information Systems (3) Fundamentals of object-oriented system analysis and design. Using Computer Aided Software Engineering (CASE) tools such as MS Project, IBM Rational RequisitePro and Software Modeler to model the business, capture the requirements, and designing, (and prototyping) a business application. Prerequisite: CIS 2615 and CIS 3630. An additional fee is associated with this course.

CIS 2607 Data Communication Technologies (3) Current topics in data communications technology. Topics in wireless and wired technologies supporting personal area, local area and/or wide area networks will be considered. Prerequisite: CIS 2665.

CIS 2608 User Interface Design (3) Principles and guidelines for developing interface designs. Foundational theory, the design / development process and testing for web and application software interfaces will be addressed. Prerequisites: CIS 2615 and CIS 3660.

CIS 2609 Systems Project (1-2) An independent individual project to be completed by the student. May be repeated for a maximum of 5 semester hours. Prerequisite: CIS 3660.

CIS 2610 Integrative Business Experience Practicum (3) Students will apply concepts from the concurrent courses to their own start-up business venture and to community service. Corequisites: special

sections of MGT 3315, MKT3630. An additional fee is associated with this course. Prerequisites: CIS 2615 and CIS 3660.

CIS 100 Systems Architecture and Development (3) Information architecture options for systems development with consideration of security. Project management. Major project incorporating software, hardware and networking components. To be taken last semester. Prerequisites: (CIS 2615, CIS 3650, and CIS 4685 or concurrently) or (CIS 3670, CIS 4680, and (CIS 4660 or CIS 4670)).

CIS 101 Advanced Programming in C/C++\* (3) Advanced study of the ANSI C Programming Language and C++ programming constructs that improve upon C. Introduces object-oriented world with Objects, Classes, Operators and Friends. \*Not available for graduate credit.

## Economics and Finance

### ECONOMICS

Major, B.A. Degree (42-536)

The graduate with a Bachelor of Arts degree in Economics will use the knowledge and skills obtained in the program to:

- Use appropriate concepts and methods of analysis to identify and examine economic conditions and policies.
- Communicate effectively with consumers and producers of economic information and analysis.
- Select, collect, and manipulate data and interpret results.
- Consider the economic issues in the context of individual values, social values, and historical and global circumstances.
- Demonstrate elementary proficiency in a modern foreign language.

Sem. Hours

MAJOR REQUIREMENTS . . . . . ?? ?

|           |                                    |   |
|-----------|------------------------------------|---|
| ECON 1010 | Principles of Macroeconomics       | 3 |
| ECON 1011 | Principles of Microeconomics       | 3 |
| ECON 2010 | Orientation to the Economics Major | 2 |
| ECON 3010 | Intermediate Macroeconomics        | 3 |
| ECON 3030 | Intermediate Microeconomics        | 3 |
| ECON 4000 | Portfolio Assessment               | 1 |

Electives in economics or related fields . . . . . 18-21

Students using ECON 1010 to fulfill 3 s.h. of Div. II B of General Education will take 21 elective hours in economics or related fields for a total of 36 s.h. in the major.

MINOR REQUIREMENTS . . . . . 1 -

GENERAL EDUCATION REQUIREMENTS (pages 34-43) The Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . .

If ECON 1010 is used to fulfill 3 s.h. of Div. II B, 42 s.h. of General Education are required.

|           |                      |   |
|-----------|----------------------|---|
| MATH 1111 | Div. I C (required)  | 3 |
| POLS 1510 | Div. II B (required) | 3 |

MODERN LANGUAGE REQUIREMENT (Refer to Bachelor's Degree Requirements section for full fulfillment options.) . . . . . ? -

FREE ELECTIVES . . . . . -

MINIMUM TOTAL . . . . . 1

### ECONOMICS

Major, Bachelor of Science Degree (43-537)

The graduate with a Bachelor of Science degree in Economics will use the knowledge and skills obtained in the program to:

- Use appropriate concepts and methods of analysis to identify and examine economic conditions and policies.
- Communicate effectively with consumers and producers of economic information and analysis.
- Select, collect, and manipulate data and interpret results.
- Consider the economic issues in the context of individual values, social values, and historical and global circumstances.
- Demonstrate quantitative and statistical knowledge and skills.

Sem. Hours

MAJOR REQUIREMENTS . . . . .

|          |                               |   |
|----------|-------------------------------|---|
| CIS 1605 | Business Application Software | 2 |
|----------|-------------------------------|---|

|                        |                                    |     |
|------------------------|------------------------------------|-----|
| ECON 1010              | Principles of Macroeconomics       | 3   |
| ECON 1011              | Principles of Microeconomics       | 3   |
| ECON 2010              | Orientation to the Economics Major | 2   |
| ECON 3010              | Intermediate Macroeconomics        | 3   |
| ECON 3030              | Intermediate Microeconomics        | 3   |
| ECON 3065              | Labor Economics                    | 3   |
| ECON 4000              | Portfolio Assessment               | 1   |
| ECON 4060              | Game Theory Applications           | 3   |
| ECON 4065              | Managerial Economics               | 3   |
| ECON 4075              | Time Series Analysis               | 3   |
| ECON 4080              | Econometrics                       | 3   |
| FIN 2801               | Business Statistics I              | 3   |
| FIN 3801               | Business Statistics II             | 3   |
| MGT 3360               | Production/Operations Management   | 3   |
| Electives in economics |                                    | 0-3 |

Students using ECON 1010 to fulfill 3 s.h. of Div. II B of General Education will take 3 elective hours in economics for a total of 44 s.h. in the major.

MINOR REQUIREMENTS . . . . . 1 -

GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . .

If ECON 1010 is used to fulfill 3 s.h. of Div. II B, 45 s.h. of General Education are required.

|           |  |   |
|-----------|--|---|
| COMM 1000 | Div. I B (required)  | 3 |
| MATH 1111 | Div. I C (required)  | 3 |
| BTE 1210  | Div. II A 2 (required)   | 2 |
| POLS 1510 | Div. . . 4v294.(4.994(-)-295.001(-)-294.994(-)-294.998(-)-294.998(-) | 2 |
| ECON      |  | 2 |









MGT 311 Management of Organizations (3) An examination of the theory and practices of managing organizations, including planning, organizational theory, human behavior, and control. Prerequisites: ACCT 2100 or ACCT 2101. Available only to business majors.

MGT 330 Systems, Teams and Organizational Behavior (3) Emphasis on systems, teams, interpersonal relationships between participants and the dominant influence of systems on human behavior in groups and organizations. Prerequisite: MGT 3325 or concurrently and MGT 3315 or concurrently.

MGT 332 Business Communications (3) Improves the student's ability to plan and strategically write letters, memos, proposals, and reports and improve oral and interpersonal communication skills. Both listening and speaking skills will be developed through formal presentations, class discussions, and group work.

MGT 399 Internship in Management (3 - )

# Marketing and Legal Studies

## MARKETING

Functional Major, Bachelor of Science in Business Administration  
Degree  
(46-511)

The graduate with a B.S.B.A. degree with a major in Marketing will use the knowledge and skills obtained in the program to:

- Understand the marketing concepts in consumer behavior, personal selling, marketing research, marketing analysis, strategy development and global decision-making.
- Communicate effectively in both individual and team situations using both oral and written communication.
- Interact effectively with others to analyze situations and solve marketing problems.
- Understand the valuing process as it relates to making optimal decisions in the global business environment.
- Apply analysis and problem solving skills to assess marketing situations and develop strategies for implementation.

Sem. Hours

### FUNCTIONAL MAJOR REQUIREMENTS . . . . .

|       |      |  |   |
|-------|------|--|---|
| MKT   | 3405 | Marketing Policy . . . . .               | 3 |
| MKT   | 3430 | Personal Selling . . . . .               | 3 |
| MKT   | 3480 | Consumer Behavior . . . . .              | 3 |
| MKT   | 4460 | International Marketing . . . . .        | 3 |
| MKT   | 4470 | Marketing Research . . . . .             | 3 |
| MKT   | 4490 | Marketing Management . . . . .           | 3 |
| *BLAW | 2720 | Legal Environment of Business . . . . .  | 3 |
| *ACCT | 2101 | Principles of Financial Acct. . . . .    | 3 |
| *ACCT | 2102 | Principles of Managerial Acct. . . . .   | 3 |
| CIS   | 1605 | Business Application Software . . . . .  | 2 |
| CIS   | 3630 | Management Information Systems . . . . . | 3 |



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# College of Education

## Career and Technology Education

For the VOCATIONAL AGRICULTURE EDUCATION Functional Major, Bachelor of Science in Education Degree see the program

**BUSINESS EDUCATION**

Minor for a Bachelor's Degree

Certification to teach Business Education in grades 5-9 with a middle school-junior high school major.

NOTE: See Director of Clinical Services and Certification.  
(517)

Sem. Hours

|                    |   |         |
|--------------------|---|---------|
| MINOR REQUIREMENTS | .....                                   | ?       |
| BTE 1210           | Essentials of Managing Information      | ..... 2 |
| CTE 1000           | Intro. to Career & Technology Education | .. 3    |
| BTE 2535           | Data Input Technologies                 | ..... 3 |
| BTE 3536           | Integrated Productivity Applications    | ..... 3 |
| BTE 4501           | Managing Classroom Technology           | ..... 3 |
| BTE 4510           | Desktop Publishing for Business         | ..... 3 |
| BTE 4560           | Presentations & Information Management  | 3       |
| ECON 1010          | Principles of Macroeconomics            | ..... 3 |

GENERAL EDUCATION REQUIREMENTS (pages 34-43)  
In the minor, BTE 1210 fulfills 2 s.h. of Div. II A; ECON 1010 fulfills 3 s.h. of Div. II B.

**ADMINISTRATIVE SUPPORT**

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor  
(548)

Sem. Hours

|                              |   |         |
|------------------------------|---|---------|
| MINOR REQUIREMENTS           | .....                                   | 0       |
| BTE 1210                     | Essentials of Managing Information      | ..... 2 |
| CTE 1000                     | Intro. to Career & Technology Education | .. 3    |
| BTE 2535                     | Data Input Technologies                 | ..... 3 |
| BTE 3536                     | Integrated Productivity Applications    | ..... 3 |
| BTE 4501                     | Managing Classroom Technology           | ..... 3 |
| ACCT 2101                    | Principles of Financial Acct.           | ..... 3 |
| Electives from the following | .....                                   | 3       |
| BTE 4510                     | Desktop Publishing for Business         | ..... 3 |
| BTE 4560                     | Presentations & Information Mgt.        | ..... 3 |

GENERAL EDUCATION REQUIREMENTS (pages 34-43)  
In the minor, BTE 1210 fulfills 2 s.h. of Div. II A.

**Career Technology Education**

CTE 1000 Introduction to Career & Technical Education (P)  
Introduction to teaching Career & Technical Education. Philosophy and content of respective Career Education programs in Missouri, and respective state and national standards.

CTE 110 Financial Management Education (P) Competencies related to income, taxes, money management, spending, use of credit, saving, and investing. Issues and strategies for responsible personal financial management across the life-span.

CTE 410 Foundations of Career & Technology Education (P)  
Synthesizes Career and Technical Education's history, past and current issues, legislation, and philosophical foundations. Only offered Fall semester.

CTE 415 Curriculum Construction in Career and Technical Education (P) Assist new and practicing educators in selecting and organizing course content for their career and technical education courses. Prerequisite: For BS degree, T&OE 4140. For BSE degree Admission to Teacher Education Program or instructor approval.

CTE 420 Methods of Teaching Career and Technical Education (P)





# Technology Education

## TECHNOLOGY EDUCATION

Major, Bachelor of Science in Ed. Degree

Certification to teach technology education in grades 9-12

(41-229)

The graduate with a Bachelor of Science in Education degree in Technology Education will use the knowledge and skills obtained in the program to:

- Be capable of implementing a contemporary technology education program based on the Standards for Technological Literacy
- Possess a conceptual understanding of 1) the nature and history of technology and, 2) the influence of technology on society and the environment
- Demonstrate competence with various technologies including design, communication, manufacturing, construction, transportation, energy, and computer technology
- Employ and teach problem solving methods to solve technical problems
- Demonstrate the ability to operate lab equipment in an efficient and safe manner, and teach accordingly
- Demonstrate the ability to operate, schedule and control labs for technology education programs
- Display professional habits including involvement in professional associations related to Technology Education, continuous learning, and collegiality

Sem. Hours

MAJOR REQUIREMENTS . . . . .?

Communication Technology



Driver Education  
Health Education  
Journalism  
Science Education 5-9

## ADMISSION TO THE PROFESSIONAL EDUCATION SEMESTER AND STUDENT TEACHING

The professional education semester is generally the final semester of the program, and student teaching is the primary component.

Approval for admission to the professional education semester, including student teaching, involves meeting or completing the following minimum requirements:

1. Admission to the Teacher Education Program.

### ADMISSION TO THE TEACHER EDUCATION PROGRAM

Students seeking an initial teaching certificate (as candidates for the Bachelor of Science in Education, the Bachelor of Science, or the Bachelor of Music Education degrees, or as post-baccalaureate students) must gain admission to the University of Central Missouri Teacher Education Program.

Admission to Teacher Education is required before enrolling in courses identified as PROFESSIONAL EDUCATION REQUIREMENTS (with the exception of the courses listed below) as well as those courses identified by departments representing the major area of study in the preparation for teaching.

1. Application for admission.
2. Evidence of having completed a minimum of 48 semester hours of college credit, have a cumulative GPA of at least 2.50, and be currently enrolled at UCM.
3. Completion of the following courses with a grade of C or higher:
  - A. EDCI 2100, Foundations of Education and Field Experience
  - B. EDCI 2240, Educational Psychology (or equivalent course)
  - C. ENGL 1020, Composition I (or approved equivalent course emphasizing writing skills)
  - D. College-level mathematics course (at the level of MATH 1111, 1150, or 1620)
  - E. An oral communication course (COMM 1000 or equivalent course).
4. Recommendation for admission from the department representing the major area of study in the preparation for teaching (interviews or other means of assessment as determined by individual departments).
5. Evidence of having passed all sections of the C-BASE (undergraduates only - Post-Baccalaureate students are exempt.)
6. Satisfactory criminal history background check. No student will be admitted to teacher education if he/she has been convicted of a felony. (Post-Baccalaureate students may contact the Office of Clinical Services and Certification to clarify admission requirements.)

NOTE: Any appeal regarding denial of Admission to the Teacher Education Program should be addressed in writing to the chair of the Teacher Education Council. Further appeal should be directed to the Dean of the College of Education and Human Services.

# Curriculum and Instruction

In the Department of Curriculum and Instruction, the second

**ELEMENTARY EDUCATION**

Functional Major, Bachelor of Science in Education Degree  
 Elementary teacher certification in Missouri is available at two levels;  
 for Grades 1-6 and for early childhood education Birth-Grade 3.  
 Careful program planning could lead to certification in both of these  
 levels, or for elementary with special education certification. Students  
 interested in two levels of certification should see the Director of  
 Clinical Services and Certification.

Instructional Media Technology (23 s.h.), Mathematics (24-25 s.h.),  
 Science (24 s.h.), Social Studies (26-27 s.h.), Special Education  
 (26 s.h.), Speech Communications/Theatre (21 s.h.), Spanish (21 s.h.).  
 Note: Elementary majors with special education minor/area of  
 concentration will be assigned two additional hours of student  
 teaching.

GENERAL EDUCATION REQUIREMENTS (pages 34-43 and listed  
 for this program) . . . . .

Sem. Hours

CORE REQUIREMENTS . . . . .

|      |      |  |   |
|------|------|--|---|
| EDCI | 3210 | Methods of Reading Instruction . . . . .                                     | 3 |
| EDCI | 3220 | Teaching of the Language Arts . . . . .                                      | 3 |
| EDCI | 2310 | Computer/Technology in Ed. . . . .   | 2 |
| EDCI | 4350 | Elem. Science Tchg. Strategies . . . . .                                     | 3 |
| EDCI | 3410 | Children's Literature . . . . .  | 2 |
| EDCI | 3420 | Tchg. Social Studies & Economics<br>in Elementary & Middle Schools . . . . . | 3 |
| HED  | 3310 | Meth. in Elem. School Health . . . . .                                       | 2 |
| HED  | 4330 | First Aid & CPR for Educators . . . . .                                      | 1 |
| ART  | 3910 | Art for Elementary Schools . . . . .   | 2 |
| MATH | 1800 | Introduction to Teaching Elementary<br>& Middle School Mathematics . . . . . | 2 |
| MATH | 2801 | Concepts & Methods in<br>Elementary School Mathematics . . . . .             | 3 |
| MUS  | 3301 | Music for Elementary Schools . . . . .                                       | 2 |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . .

In the functional major, HED 3310 and HED 4330 will be allowed to  
 fulfill 3 s.h. of Div. III; IGEN 3468 fulfills 3 s.h. of Div. IV A 42

|                |      |  |   |
|----------------|------|--|---|
| COMM           | 1000 | Div. I B (required) . . . . .                            | 3 |
| MATH           | 1620 | Div. I C (required) . . . . .                            | 3 |
| Science Choice |      | Group I or Group II of Div. II A . . . . .               | 7 |
|                |      | Group I  |   |
| EDCI           | 1320 | Biology for Teachers . . . . .                           | 3 |
| EASC           | 1004 | Div. II A or   |   |
| CHEM           | 1104 | Div. II A or   |   |
| PHYS           | 1104 | Div. II A (required) . . . . .                           | 4 |
|                |      | or   |   |
|                |      | Group II   |   |
| EDCI           | 1310 | Physics for Teachers . . . . .                           | 3 |
| BIOL           | 1004 | Div. II A (required) . . . . .                           | 4 |
| POLS           | 1510 | Div. II B (required) . . . . .                           | 3 |
| HIST           | 1350 | Div. II B or   |   |
| HIST           | 1351 | Div. II B (required) . . . . .                           | 3 |
| GEOG           | 2212 | Div. II B (required) . . . . .                           | 3 |
| ART            | 1800 | Div. II C or   |   |
| MUS            | 1210 | Div. II C (required) . . . . .                           | 3 |
|                |      | Modern (Foreign) language Div. II C (required) . . . . . | 3 |
| EDCI           | 2110 | Div. II D (required) . . . . .                           | 3 |

Elementary Education functional majors will be allowed to substitute  
 EDCI 1310 or EDCI 1320 to fulfill 3 s.h. of Div. II A.

**GRADES 1-**

Functional Major Option, Bachelor of Science in Education Degree  
 (41-720)

Certification to teach elementary education in grades 1-6

Sem. Hours

FUNCTIONAL MAJOR REQUIREMENTS . . . . .?

CORE REQUIREMENTS . . . . .

|      |      |   |   |
|------|------|---|---|
| EDCI | 3215 | Tchg. Reading in Content Fields . . . . .   | 3 |
| EDCI | 4220 | Analysis & Corr. of Rdg. Disabil. . . . .   | 2 |
| EDCI | 4250 | Practicum in Reading . . . . .              | 1 |
| PE   | 3420 | Elem. School Phys. Ed. Activities . . . . . | 2 |

AREA OF CONCENTRATION REQUIREMENTS . . . . . 1

An approved minor/area of concentration in a teaching/specialty area  
 appropriate for elementary majors.

Select one approved minor/area of concentration from the following:  
 Art (27 s.h.), English (24 s.h.), Family and Consumer Science (25 s.h.)  
 French (21 s.h.), German (21 s.h.), Health Education (22 s.h.),



**SCIENCE**

Minor, Bachelor of Science in Education Degree  
 Certification available to teach science in grades 5-9 for elementary/  
 middle school-junior high school functional majors only. Elementary  
 education functional majors 1-6 may use this as an area of  
 concentration. This minor is not available for secondary or K-12  
 education majors.  
 (821)

Sem. Hours

|                              |      |   |   |
|------------------------------|------|---|---|
| MINOR REQUIREMENTS . . . . . |      |   | 4 |
| EDCI                         | 1310 | Physics for Teachers . . . . .              | 3 |
| EDCI                         | 1320 | Biology for Teachers . . . . .              | 3 |
| EASC                         | 1004 | Intro. to the Sciences: Geology . . . . .   | 4 |
| EASC                         | 3010 | Environmental Geology . . . . .             | 3 |
| EASC                         | 3114 | Meteorology . . . . .                       | 3 |
| BIOL                         | 1004 | Intro. to the Sciences: Ecology . . . . .   | 4 |
| CHEM                         | 1104 | Intro. to the Sciences: Chemistry . . . . . | 4 |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the minor,  
 BIOL 1004 and CHEM 1104 fulfill 7 s.h. of Div. II A.

**Special Projects**

EDCI 2000 Special Projects in Education (1- ) Individual or group  
 study of problems in special areas of interest. May be repeated for a  
 maximum of 6 semester hours.

**Foundations**

EDCI 100 Foundations of Education and Field Experience ( )  
 An overview of the American public school; its nature, purpose, history,  
 philosophy, organization and administration; contemporary issues  
 and trends. Includes 30 hours of public school classroom observation.  
 Corequisites: should be taken concurrently with EDCI 2240 during the  
 sophomore year. In addition, should be taken concurrently with EDCI  
 2101 by early childhood, elementary, and middle school majors. An  
 additional fee is assessed for this course.

EDCI 101 Models of Teaching ( ) Furnishes the preservice teacher  
 with a variety of models of teaching and an understanding of the

and childhood models of teaching and an understanding of the

EDCI 430 Teaching Strategies in the Middle School (3) Middle school teaching strategies building upon middle level organization and curriculum, with particular emphasis on integration and interdisciplinary teaming. Prerequisites: admission to Teacher Education Program, PSY 4230 and EDCI 4130. An additional fee is assessed for this course.

EDCI 430 Elementary Science Teaching Strategies (3) Science concepts commonly developed in the elementary grades, with special emphasis on objective materials, field trips, experiments, laboratory and other activities. Enrollment is limited to students preparing to become elementary teachers. Prerequisites: admission to Teacher Education Program; completion of a physical science and biological science, each with labs, (EDCI 1310 and BIOL 1004) or (EDCI 1320



# Child and Family Development

In the section of Child and Family Development, the second digit in a course number stands for the following: 0-General, 2-Development, 7-Professional.

## CHILD AND FAMILY DEVELOPMENT

Functional Major, Bachelor of Science Degree  
(43-121)

Students will be:

- Able to think critically about problems and issues facing children and families.
- Prepared to use developmentally appropriate practices to promote the optimal development of diverse children and families.
- Competent to assume leadership roles in programs providing direct and support services to children and families.
- Articulate advocates for justice for families and children in both public and private arenas.
- Aware of and sensitive to ethical implications in their professional relationships with diverse families and children.

Sem. Hours

MAJOR REQUIREMENTS . . . . . both  
public the section of 1 sens - 1



Accreditation

The Special Education program is accredited by the Council for Exceptional Children (CEC). The Council for Exceptional Children (CEC) is located at 1110 North Glebe Road, Suite 300, Arlington, VA 22201; phone 703-620-3660; email service@cec.sped.org; web page http://www.cec.sped.org.

**SPECIAL EDUCATION**

Functional Major, Bachelor of Science in Education Degree  
 Certification to teach cross-categorical disabilities K-12; severely developmentally disabled K-12; or early childhood special education  
 Birth-Grade 3  
 (41-784)

The graduate with a Bachelor of Science in Special Education will apply knowledge and skills obtained in the program to:

- Understand the philosophical, historical, and legal foundations of the field of special education.
- Identify the characteristics of exceptional learners in order to provide for accurate selection of programs and learning opportunities.
- Become proficient in the use of assessment devices enabling effective diagnosis, evaluation and programming for exceptional learners.
- Develop a thorough understanding of instructional content and best practices for children and youth with exceptional learning needs.
- Plan and manage the teaching and learning environment for students with disabilities in a variety of educational settings.
- Understand the causes of student behavior and social interaction skills.
- Develop effective communication and collaborative partnerships among educational professionals, parents, and stakeholders in the education of children and youth with exceptional learning needs
- Practice in the field of special education using established professional and ethical practices and resources for the enhanced learning of all children.

Sem. Hours

FUNCTIONAL MAJOR REQUIREMENTS . . . . . - /

CORE REQUIREMENTS All Certification Areas . . . . .

|  |      |   |       |
|--|------|---|-------|
| EDSP   | 4140 | Collaborating With Families of Exceptional Children . . . . .               | 3     |
| EDSP   | 4360 | Behavioral Mgt. Techniques . . . . .  | 2     |
| EDSP   | 4361 | Practicum in Behav. Mgt. Tech. . . . .                                      | 1     |
| EDSP   | 4620 | Eval. of Abilities & Achievement . . . . .                                  | 3     |
| EDSP   | 4700 | IEP & the Law . . . . .   | 3     |
| HED  | 4330 | First Aid & CPR for Educators . . . . .                                     | 1     |
| EDCI   | 3210 | Methods of Reading Instruction . . . . .                                    | 3     |
| EDCI   | 2310 | Computer/Technology in Ed. . . . .  | 2     |
| EDCI   | 1310 | Physics for Teachers, 3 or  |       |
| EDCI   | 1320 | Biology for Teachers, 3 . . . . .   | 3     |
| ART  | 3910 | Art for Elementary Schools . . . . .  | 2     |
| MATH   | 3890 | Concepts & Methods of Teaching for Special Education . . . . .              | 3     |
| Area of Certification Requirements . . . . . |      |   | 26-31 |
| Cross-Categorical Disabilities . . . . .     |      |   |       |
| EDCI   | 3215 | Teaching Reading in Content Fields . . . . .                                | 3     |
| HED  | 3310 | Meth. in Elem. School Health . . . . .                                      | 2     |
| EDSP   | 4150 | Career Development for Students with Disabilities . . . . .                 | 2     |
| EDCI   | 4220 | Analysis & Correction of Reading Disabilities . . . . .                     | 2     |
| EDCI   | 4250 | Practicum in Reading . . . . .  | 1     |
| EDSP   | 4385 | Introduction to Cross-Categorical Special Education . . . . .               | 3     |
| CD   | 4402 | Language Acquisition for Children with Developmental Disabilities . . . . . | 2     |
| EDSP   | 4421 | Methods of Cross-Cat I: MR/OHI . . . . .                                    | 3     |
| EDSP   | 4422 | Methods of Cross-Cat II: LD . . . . .                                       | 3     |
| EDSP   | 4423 | Methods of Cross-Cat III: E/BD . . . . .                                    | 3     |
| MATH   | 4890 | Math. for Special Education . . . . .                                       | 2     |
| Severely Developmentally Disabled . . . . .  |      |   |       |

**PROFESSIONAL EDUCATION REQUIREMENTS Cross-Categorical Disabilities and Severely Developmentally Disabled . . . .**

|      |      |   |    |
|------|------|---|----|
| EDSP | 2100 | Ed. of the Exceptional Child . . . . .                | 2  |
| EDSP | 4395 | Student Tchg. In Spec. Ed. I . . . . .                | 8  |
| EDCI | 2100 | Foundations of Education & Field Experience . . . . . | 3  |
| PSY  | 2220 | Child Psychology . . . . .                            | 3* |
| EDCI | 2240 | Educational Psychology . . . . .                      | 3  |
| PSY  | 4230 | Psychology of Adolescence . . . . .                   | 3* |
| ICAP | 4468 | Student Tchg. Secondary II . . . . .                  | 4  |

Students may select certification in elementary education through the Director of Clinical Services and Certification.

FREE ELECTIVES . . . . . 0- /

MINIMUM TOTAL . . . . . 1

\*NOTE: With permission of adviser, students may substitute PSY 3220 Lifespan Psychology for PSY 2220 and PSY 4230.

**SPECIAL EDUCATION/ELEMENTARY EDUCATION**

Minor, Bachelor of Science in Education Degree  
Elementary education majors only.  
(854)

Sem. Hours

MINOR REQUIREMENTS . . . . . /

|      |      |   |   |
|------|------|---|---|
| EDSP | 4140 | Collaborating With Families of Exceptional Children . . . . . | 3 |
| EDSP | 4150 | Career Development for Students With Disabilities . . . . .   | 2 |
| EDSP | 4360 | Behavioral Mgt. Techniques . . . . .                          | 2 |
| EDSP | 4361 | Practicum in Behavioral Management Techniques . . . . .       | 1 |
| EDSP | 4620 | Evaluation of Abilities & Achievements. . . . .               | 3 |
| EDSP | 4700 | IEP & the Law . . . . .                                       | 3 |
| EDSP | 4385 | Intro. to Cross Categorical Special Education . . . . .       | 3 |
| EDSP | 4420 | Methods of Cross-Categorical Special Education. . . . .       | 3 |
| CD   | 4402 | Language Development for the Handicapped . . . . .            | 2 |
| MATH | 4890 | Math for Special Education . . . . .                          | 2 |
| PSY  | 4230 | Psychology of Adolescence, 3 or                               |   |
| PSY  | 3220 | Lifespan Development, 3, . . . . .                            | 3 |

NOTE: Student teaching hours are not part of a minor program, but for informational purposes students will need to enroll in EDCI 4495 for 8 semester hours and EDSP 4396 for 6 semester hours. The student teaching placement for special education will be at the secondary level (grades 5-12).

**Special Projects**

EDSP 4000 Special Projects in Special Education (1- ) Individual or group study of problems in special areas of interest. May be repeated for maximum of 5 semester hours.

**Foundations**

EDSP 100 Education of the Exceptional Child ( ) Identification of exceptional children, methods and techniques for teaching them, as well as possible sources of referral which may be of assistance to teachers and parents of these children.

EDSP 101 Community and Family Resources ( ) Early clinical observations and experiences using community and family resources concerned with various kinds of exceptionality. May be repeated for a maximum of 6 semester hours. Prerequisite: EDSP 2100 or PSY 4200. Corequisite: EDSP 3151.

EDSP 101 Community and Family Resources Practicum (1) Provides opportunities for preservice teachers to evaluate how community and family resources impact directly/indirectly on the lives of children. Prerequisite: EDSP 2100 or PSY 4200. Corequisite: EDSP 3150.

EDSP 102 Collaborating With Families of Exceptional Children ( ) A study of the impact of exceptionality on family systems and how empowerment and community resources can strengthen the school-family partnership. Prerequisite: EDSP 2100 or PSY 4200.

EDSP 103 Career Development for Students with Disabilities ( ) Supportive services to students with disabilities within a career development context. Prerequisite: EDSP 2100 or PSY 4200.

**Curriculum and Instruction**

EDSP 210 Introduction to Students with Severe Developmental Disabilities ( ) Basic information pertaining to the characteristics and care of students with severe developmental disabilities. Prerequisite: EDSP 2100 or PSY 4200.

EDSP 220 Introduction to Early Childhood Special Education ( ) Basic information pertaining to the characteristics, care, treatment, and education of young children with special needs. Only offered Fall semester. Prerequisite: EDSP 2100 or PSY 4200.

EDSP 230 Education and Training of Students with Severe Developmental Disabilities ( ) The treatment and training strategies used in teaching students with severe developmental disabilities. Prerequisites: EDSP 4310 and EDSP 4370.

EDSP 240 Augmentative and Alternative Communication ( ) Study and application of communication options, including manual sign language and communication devices. Prerequisite: EDSP 2100 or PSY 4200 or consent of instructor.

EDSP 250 Behavioral Management Techniques ( ) Practical approaches to behavior management for the classroom teacher, special educator, or clinician. Prerequisite: EDSP 2100 or PSY 4200.

EDSP 261 Practicum in Behavioral Management Techniques (1) Practical experience in designing behavioral management programs











or CD 4505; the remaining CD 4504 or CD 4505 must be taken concurrently with the first semester of clinical practicum.  
\*Not available for graduate credit.

#### Directed Studies

CD 4500 Special Topics in Communication Disorders (1-2) Selected topics of contemporary interest in speech-language pathology and audiology; variable content. May be repeated for a maximum of 6 semester hours. Prerequisite: consent of department.

### Criminal Justice

In the Department of Criminal Justice, the second digit in the course number stands for the following: 0-General, 1-Administration, 2-Traffic, 3-Law, 4-Investigation, 5-Police Science, 6-Problems and Research, 7-Juvenile Justice.

#### CRIMINAL JUSTICE

Major, Bachelor of Science Degree  
(43-842)

The graduate with a Bachelor of Science degree in Criminal Justice will use the knowledge and skills obtained in the program to:

- Discern the basic components of the criminal justice system and understand the interrelationship within and between these components.
- Specify how justice institutions operate within society, as well as how they differ.
- Read and utilize articles from academic journals.
- Recognize personal assumptions, as well as basic American assumptions in analyzing positions on justice issues.







# DIETETICS AND NUTRITION











PE 2100 Techniques of Teaching Physical Education Activities in the Elementary Schools (C) Effective teaching knowledge, skill, and techniques for physical education programs at the elementary level. Prerequisite: admission to Teacher Education Program.

PE 2200 Techniques of Teaching Physical Education Activities in Middle Schools and High Schools (C) Effective teaching knowledge, skill and techniques for physical education programs at the middle and high school levels. Prerequisite: admission to Teacher Education Program.

PE 2310 Care and Prevention of Injuries (C) Accepted athletic training procedure in the care and prevention of athletic injuries. Prerequisite: PE 2800.

PE 2400 Kinesiology (C) Intensive investigation and analysis of human movements. The basic mechanical principles of force, motion, and aerodynamics as related to fundamental physical skills and their application to sports and dance. Prerequisite: PE 2800 and MATH 1111 or MATH 1620.

PE 2500 Motor Learning and Control (C) Parameters which influence the acquisition and control of movement skills. Conditions of practice as well as those predominant factors which effect motor learning, i.e.,

















ICAP 4115 Div. IV B (required) ..... 3  
FREE ELECTIVES ..... 0-  
MINIMUM TOTAL ..... 1

**SAFETY**

Minor for a Bachelors Degree

UCM does not confer teacher certification for this minor

## **CRISIS & DISASTER MANAGEMENT**

Major, Bachelor of Science Degree

(43-248; 43-250; 43-251)

The graduate with a Bachelor of Science degree in Crisis and Disaster Management will use the knowledge and skills obtained in the programs to:

- Demonstrate an awareness of legal, professional and ethical responsibilities

## Transportation Safety

SAFE 3011 Transportation and Storage of Hazardous Materials (3)

A study of the state-of-the-art of safe methods for the transportation and storage of hazardous materials. Prerequisite: SAFE 3000 or SAFE 3300 or equivalent.

SAFE 3010 Traffic Engineering (3) Planning, design and operation of



- Develop effective ways of communicating in professional contexts.
- Understand basic research procedures in accord with the scholarly practices of the discipline of Sociology including the utilization of research journals and their documentation, construction of a research document to report findings, and the proper citation of sources.
- Critically evaluate the relative strengths and weaknesses of competing theoretical views and everyday frameworks of understanding, recognizing the complexity and uncertainty that are always present.

Sem. Hours

|  |      |
|--|------|
| MAJOR REQUIREMENTS   | 3    |
| SOC 1800 General Sociology   | 3    |
| SOC 2805 Introduction to Social Research   | 3    |
| SOC 3800 History of Social Thought   | 3    |
| SOC 3870 Personality & Society   | 3    |
| SOC 3885 Globalization & the Future  | 3    |
| SOC 4860 Contemporary Sociological Thought   | 3    |
| SOC 4890 Social Survey Research  | 3    |
| SOC 4895 Sociology Capstone Seminar  | 3    |
| Electives in sociology   | 18   |
| MINOR REQUIREMENTS   | 1 -  |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the major, SOC 1800 fulfills 3 s.h. of Div. II B | 45   |
| FREE ELECTIVES   | 1 -1 |
| MINIMUM TOTAL  | 1    |

## SOCIOLOGY

Minor for a Bachelor's Degree

SOC 3800 Contemporary Sociological Thought (C) Assessment of current sociological thought as it is reflected by outstanding scholars in the field. Prerequisite: SOC 3800 and 3 additional semester hours of sociology, graduate standing, or consent of instructor.

SOC 3801 Family Diversity (C) Focus on the institutional implications of the family. Diversity in ethnicity, sexuality, and class are emphasized. Intersection of work and family is explored. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

SOC 3802 Sociology of Organizations (C) A systematic study of the structural and interactional processes of work related organizations. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

SOC 3803 Medical Sociology (C) Social factors and institutional settings for physical and mental health care; public needs and medical services; research in medical sociology. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

SOC 3804 Sociology of Law (C) The development of legal institutions; law as a system of social control; law and social change. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

SOC 3805 Religion and Society (C) The structure and function of religion in society; social sources of religions; religion and the individual. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

SOC 3806 Social Survey Research (C) Major concepts in social survey research design, measurement, sampling, and data collection techniques. Quantitative analysis of survey data and micro-computer applications. Prerequisite: SOC 2805, graduate standing, or consent of instructor.

SOC 3807 Sociology of Aging (C) The aging process and its consequences for the individual and society; an examination of the problem of aging in terms of demographic, economic, psychological and sociologic implications; and emphasis on sociological principles and perspectives. Prerequisite: 6 semester hours of sociology, graduate standing, or consent of instructor.

SOC 3808 Sociology Capstone Seminar\* (C) Focus on the history and trajectory of sociology as a discipline, demonstrate professional ethics, and develop a career plan in the discipline. Prerequisite: Sociology major and senior standing or consent of department chair.

\*Not available for graduate credit.

## Social Work

### Social Work Statement of Policy

#### Admission Policy

Students entering UCM as freshmen should indicate a social work major. Transfer students must meet all requirements. Admission to the social work program is conditional upon the successful completion of all necessary requirements.


#### Requirements for Admission to the Social Work Program

1. Completion of General Education courses listed as requirements of the social work functional major.
2. Cumulative grade-point average of 2.00.
3. A minimum grade of C for courses listed as curriculum requirements of the social work functional major.





Integrative Studies Capstone

ICAP  Integrative Social Work Practicum Seminar\* (6 )  
Integration of classroom knowledge with 500 hours in social service  
agency practicum. Open to social work majors only. Corequisite:  
SOWK 4660. Prerequisites: all other required major courses must be  
completed and consent of the Coordinator of Field Education. \*Not  
available for graduate credit.



|           |                                   |   |
|-----------|-----------------------------------|---|
| AGRI 4110 | Agricultural Futures Trading      | 3 |
| AGRI 4120 | International Agriculture         | 3 |
| AGRI 4140 | Agricultural Policy               | 3 |
| AGRI 4150 | Natural Resource Economics        | 3 |
| AGRI 1300 | Introductory Plant Science        | 1 |
| AGRI 2330 | Introduction to Soil Science      | 3 |
| AGRI 2331 | Soils                             | 3 |
| AGRI 1420 | Animal Husbandry                  | 3 |
| AGRI 2425 | Livestock Evaluation              | 3 |
| AGRI 3420 | Animal Nutrition                  | 3 |
| AGRI 1600 | Introductory Horticulture Science | 3 |
| AGRI 4820 | Agricultural Safety               | 3 |
| ECON 1011 | Principles of Microeconomics      | 3 |
| ECON 3030 | Intermediate Microeconomics       | 3 |
| FIN 1820  | Personal Finance                  | 3 |
| MKT 3430  | Personal Selling                  | 3 |
| BLAW 2720 | Legal Environment of Business     | 3 |
| AGRI 1200 | Agriculture Mechanics, 3 or       |   |
| AGRI 3200 | Farm Power & Machinery, 3         | 3 |
| AGRI 1310 | Agronomy I: Row Crops, 2 or       |   |
| AGRI 2315 | Agronomy II: Forages, 2.          | 2 |
| AGRI 4340 | Agri. Sprays & Chemicals, 3 or    |   |
| AGRI 3610 | Agriculture Pest Management, 3    | 3 |
| ACCT 2100 | Survey of Accounting, 3 or        |   |
| ACCT 2101 | Principles of Financial Acct. 3,  | 3 |

AGRI Div. to Agriculture . . . . .G.2050  
 AGRI ing Ro Agriculture. ..0141113( Agriculture)-209..994(.)-294.998(.)-294.994(.)-  
 AGRI 2330  
 A47(P)56.0047(ower)0.0181091( to)0.0141113( Agriculture)939e. ..0141113( Agri  
 A. . Introduction to Agriculture. . Introduction to Agriculture . . . . .G.20506

MINOR NOT REQUIRED

GENERAL EDUCATION REQUIREMENTS (pages 34-43) . . . . .

|           |                      |   |
|-----------|----------------------|---|
| COMM 1000 | Div. I B (required)  | 3 |
| MATH 1111 | Div. I C (required)  | 3 |
| CHEM 1104 | Div. II A (required) | 4 |
| ECON 1010 | Div. II B (required) | 3 |
| SPAN any  | Div. II C (required) | 3 |
| AGRI 2130 | Div. II D (required) | 3 |
| ICAP 4101 | Div. IV B (required) | 3 |

FREE ELECTIVES . . . . .?

MINIMUM TOTAL . . . . . 1

VOCATIONAL AGRICULTURE EDUCATION

Functional Major, Bachelor of Science in Ed. Degree  
 Certification to teach vocational agriculture education in grades 9-12  
 (41-112)

The graduate with a Bachelor of Science in Education degree in  
 Vocational Agriculture Education will use the knowledge and skills  
 obtained in the program to:

- Understand the components of a complete secondary agriculture program including the essentials of a successful FFA chapter and an adult agricultural education program.
- Formulate strategies and tools to use in planning a local agricultural education program to address local, state, national, and international needs.
- Apply the Missouri State Standards and Quality Indicators for agriculture program improvement.
- Distinguish methods of developing successful partnerships using community resources and successfully marketing an agricultural education program.
- Demonstrate computer literacy.
- Provide evidence of an international-global perspective of agriculture.
- Use language and concepts of agriculture effectively in written and oral communications.
- Demonstrate ability to analyze situations and solve problems in an agricultural context.
- Demonstrate an understanding of the basic practices and theory of agricultural production (agricultural literacy).
- Demonstrate appropriate and effective social interactions.

Sem. Hours

FUNCTIONAL MAJOR REQUIREMENTS . . . . . ?

|           |  |   |
|-----------|--|---|
| AGRI 2010 | Computer Applications for Agriculturists | 3 |
|-----------|--|---|

AGRI 110 Agri-Business Management (3) Management functions and economics of agricultural organizations and operations, including input-output analysis, efficient allocations of resources, enterprise combinations, and budgeting analysis. Only offered Fall semester. Prerequisites: ECON 1011; AGRI 2010 or concurrently; MATH 1111 or concurrently.

AGRI 10 Distribution and Marketing Agriculture Products (3) Principles governing the distribution, prices, and marketing of agriculture products. Only offered Fall semester. Prerequisite: ECON 1011.

AGRI 1 Agricultural Analysis and Statistics (3) Statistical analysis and experimental designs as applied to agriculture. Only offered Fall semester. Prerequisite: MATH 1111 and AGRI 2010.

AGRI 10 Agricultural Futures Trading (3) Examination of techniques used in pricing products in the agricultural commodities futures market. Emphasis on futures trading as a marketing tool with some consideration of alternative speculating techniques. Only offered Spring semester. Prerequisites: AGRI 2010 and AGRI 3120.

AGRI 10 International Agriculture (3) Economic, cultural,





AVIA 100 International Aviation (C) Aviation issues in international aviation including ICAO regulations and other factors related to the operation of airplanes in a global environment.

### Aviation Maintenance

AVIA 100 General Mechanics (C) Power mechanics, measurement and transmission. Theory of internal combustion engines. Principles of simple machines, sound, fluid and heat dynamics. Fabrication of fluid lines and fittings. Disassembly, repair and reassembly of a small reciprocating engine.

AVIA 110 Aircraft Reciprocating Power Plants (C) Aircraft reciprocating power plants, construction, operation, overhaul, and engine logs. Laboratory experience in disassembling, cleaning, inspection, and assembling.

AVIA 111 General A&P Applications (C) General A&P related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

AVIA 112 Airframe Applications (C) Airframe related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

AVIA 113 Powerplant Applications (C) Powerplant related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

AVIA 114 Federal Aviation Regulations & Records Keeping Applications (C) Federal aviation regulations and records keeping related course and laboratory material necessary to transition from military to civilian applications. Prerequisite: Release from the Federal Aviation Administration (FAA sign-off) for General, Airframe, and Powerplant or permission of instructor.

AVIA 115 Basic Airframe Maintenance (C) Selecting airframe materials, repairing, rigging, and caring for fabric covered airframes. Prerequisite: MGMT 1120.

AVIA 116 Aircraft Carburetion and Lubrication Systems (C) Operation of fuel, induction and lubrication systems. Type, composition and characteristics of various fuels and oils. Inspection, maintenance, and overhaul of fuel, induction and lubrication systems' components.

AVIA 117 Aircraft Electrical Systems (C) The theory, operation, and repair of aircraft electrical systems and components.

AVIA 118 Aircraft Hydraulic Systems (C) Theory and practice in the operation, maintenance, and overhaul of hydraulic systems and components.

AVIA 119 Gas Turbine Engines (C) Application, design, construction, operation, and overhaul of gas turbine power plants. Laboratory experiences in disassembling, inspection and assembling.

AVIA 120 Aircraft Engine Testing (C) Theory and practice in installing, trouble shooting, testing, and repairing of aircraft engines.

AVIA 121 Propellers and Components (C) Propellers, governors, and de-icing systems. Inspection, servicing, and overhaul of propellers.

AVIA 122 Aircraft Ignition-Starting Systems (C) Theory and practice in the operation, maintenance, and overhaul of ignition and starting systems and their components.

AVIA 123 Aircraft Air Conditioning and Pressurization Systems (C) Theory and practice with pneumatic, anti-icing, cabin pressurization, and air conditioning systems.

AVIA 124 Complex Aircraft Systems (C) Theory, operation and repair of complex aircraft fuel systems, position and warning systems, ice and rain protection systems. Prerequisite: AVIA 2230.

AVIA 125 Metal Airframe Processing (C) Theory and practice in the construction and repair of metal airframes.

AVIA 126 Aircraft Radio Installation and Operation (1) Theory and practice with communication and navigation radio equipment. Prerequisite: AVIA 2230.

AVIA 127 Aircraft Communication/Navigation Systems (C) Theory, operation, maintenance and repair of aircraft communication and navigation systems. Course includes lectures, demonstrations, and mandatory laboratory activities. Prerequisites: ET 2060, ET 2058, and ET 3014.

AVIA 128 Aircraft Pulse and Related Systems (C) Theory, operation, maintenance and repair of aircraft pulse and related systems. Course includes lectures, demonstrations, and mandatory laboratory activities. Prerequisites: ET 2060, ET 2058, and ET 3014.

AVIA 129 Aircraft Inspection, Weight and Balancing\* (C) Theory and practice of repairing, maintaining, ground handling, jacking, weighing aircraft, and performing inspection. \*Not available for graduate credit.

AVIA 130 Transport Aircraft Systems\* (C) Comparison studies of systems on major types of transport category aircraft and the in-flight management of those systems. Field trips to major airlines are included in the instructional sequence of the course. Prerequisite: AVIA 3340. \*Not available for graduate credit.

AVIA 131 Aircraft Instrument Systems\* (C) Theory and practice of installing, operating, marking, adjusting, and interpreting aircraft instruments. \*Not available for graduate credit.

AVIA 132 Aircraft Engine Instruments and Systems\* (C) Theory and practice in the operation and repair of aircraft engine instruments, fire detection and extinguishing systems, engine cooling systems and exhaust systems. \*Not available for graduate credit.

### Aviation Flight

Aircraft user charges are based on flying time and vary with the type of aircraft. Advance deposits of \$500 or more for each course are required. Contact the Department of Power and Transportation or Chief Flight Instructor for current hourly flight fee rates. Additional federal financial aid may be received by students who incur documented costs for aviation flight training.

AVIA 133 FAA Private Requirements (C) Basic ground school in support of flight training to prepare for the FAA examination for the Private Pilot Certificate. A fee is charged for pilot supplies and ground school materials.

AVIA 134 Private Flight A (1) Increase student's knowledge and experience to operate aircraft in solo flight and night conditions. Third class medical required before class begins. Approximately 20 flight hours required.

AVIA 135 Private Flight B (1) Increase the student's knowledge and aeronautical experience to operate an airplane on dual and solo cross-country flights. Third class medical required. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 1320.

AVIA 136 Propulsion Systems (C) Operation and theory of aircraft propellers and both reciprocating and gas turbine engines. Laboratory activity includes testing and troubleshooting major functional components and systems. Prerequisite: PR&T 1010.

AVIA 137 FAA Commercial Requirements (C) Commercial ground school subjects in support of flight training to prepare for FAA examination for Commercial Pilot Certificate. Prerequisite: AVIA 3314.

AVIA 138 Commercial Flight A (1) Increase the student's knowledge and aeronautical experience in dual and solo cross country flying in both day and night conditions. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 1321 or Private Pilot Certificate.

AVIA 139 Commercial Flight B (1) Increase the student's knowledge and aeronautical experience in solo and cross country flying. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3310.

AVIA 140 Commercial Flight C (1) Increase the student's knowledge and aeronautical experience in solo cross country flying. Student should plan to fly approximately 20 hours. Prerequisite: AVIA 3311.

AVIA 141 Instrument Flight A (1) Increase the student's knowledge and aeronautical experience in maneuvering the aircraft solely by reference to the flight instruments. Includes the use of full and partial panel reference. The student should plan to fly approximately 20 hours. Prerequisite: AVIA 3312.

AVIA?? 1 Instrument Flight B (1) Increase the student's knowledge and aeronautical experience in IFR cross-country and emergency



# Biology and Earth Science

## Biology

**NOTE** Careers in professional specialties in biology generally require preparation through at least the masters degree. The biology programs at UCM provide preparation for students who plan professional work in the following biological specialties:

- Biomedical Sciences
- Entomology
- Environmental Biology
- Fisheries and Estuarine Ecology
- Forest Biology
- Marine Biological Sciences
- Oceanography
- Plant Science
- Systematic Botany
- Wildlife Conservation

## BIOLOGY

Major, Bachelor of Arts Degree  
(42-379)

The graduate with a Bachelor of Arts degree in Biology will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems (managing information).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision



|  |                                  |       |
|--|----------------------------------|-------|
| BIOL 4232  | Herpetology                      | 4     |
| BIOL 4312  | Entomology                       | 4     |
| Departmentally Approved Electives (see Chair or adviser) .. 11   |                                  |       |
| B. Biomedical/Molecular Studies .. 32  |                                  |       |
| BIOL 3611  | Microbiology                     | 4     |
| PHYS 1101  | College Physics I                | 4     |
| BIOL 3431  | Animal Physiology 4, OR          |       |
| BIOL 4411  | Plant Physiology 4,              | 4     |
| Elective from the following .. 4   |                                  |       |
| BIOL 4403  | Environmental Physiology         | 4     |
| BIOL 4311  | Parasitology                     | 4     |
| BIOL 4511  | Cytogenetics                     | 4     |
| Departmentally approved electives (see Chair or adviser) .. 16   |                                  |       |
| C. Conservation Enforcement Studies .. 32  |                                  |       |
| COMM 2620  | Public Relations                 | 3     |
| CJ 1000  | Introduction to Criminal Justice | 3     |
| CJ 2300  | Criminal Law                     | 3     |
| CJ 3303  | Criminal Procedure               | 3     |
| CJ 4302  | Criminal Evidence                | 3     |
| Elective from the following .. 3   |                                  |       |
| COMM 1520  | Elements of News Reporting       | 3     |
| COMM 4415  | Screenplay Writing               | 3     |
| Elective from the following .. 4   |                                  |       |
| BIOL 4210  | Ichthyology                      | 4     |
| BIOL 4221  | Mammalogy                        | 4     |
| BIOL 4223  | Ornithology                      | 4     |
| BIOL 4232  | Herpetology                      | 4     |
| BIOL 4312  | Entomology                       | 4     |
| Departmentally approved electives (see Chair or Adviser) .. 10   |                                  |       |
| MINOR NOT REQUIRED   |                                  |       |
| GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the functional major, BIOL 1111, BIOL 1112, CHEM 1131, and CHEM 1132 are allowed to fulfill 7 s.h. of Div. II A; ICAP 4222 fulfills 3 s.h. of Div. IV B .. ? |                                  |       |
| FREE ELECTIVES   |                                  | 1 -1/ |
| MINIMUM TOTAL  |                                  | 1     |

|                                  |                                  |     |
|----------------------------------|----------------------------------|-----|
| BIOL 2512                        | Cell Biology                     | 3   |
| BIOL 3413                        | Immunology                       | 3   |
| BIOL 3611                        | Microbiology                     | 4   |
| BIOL 4000                        | Biology Colloquium               | 1   |
| BIOL 4311                        | Parasitology                     | 4   |
| BIOL 4514                        | Molecular Biology                | 3   |
| BIOL 4515                        | Molecular Biology Lab            | 2   |
| CHEM 1131                        | General Chemistry I              | 5   |
| CHEM 1132                        | General Chemistry II             | 5   |
| CHEM 3212                        | Quantitative Analysis            | 3   |
| CHEM 3341                        | Organic Chemistry I              | 4   |
| MATH 1111                        | College Algebra                  | 3   |
| MATH 1112                        | College Trigonometry, 2 or       |     |
| PSY 4520                         | Stat. for Behavioral Sciences, 3 | 2-3 |
| ET 1020                          | General Electronics              | 3   |
| ICAP 4222                        | The Biological Perspectives      | 3   |
| MEDICAL TECHNOLOGY CREDIT .. ? 0 |                                  |     |

Courses in various accredited medical technology programs may vary from hospital to hospital. All courses are recorded as BIOL 4012.

Courses usually offered are:

|                           |      |
|---------------------------|------|
| Clinical Biochemistry     | 6-10 |
| Clinical Urinalysis       | 0-3  |
| Clinical Hematology       | 4-7  |
| Clinical Immunohematology | 3-4  |
| Clinical Immunology       | 2-6  |
| Clinical Microbiology     | 6-8  |
| Special Topics            | 0-4  |

These courses are part of the Medical Technology functional major required by affiliation agreement for this program. They are not offered on campus or open to students in other programs. Credit for these courses is allowed for work taken at one of our affiliated

**MEDICAL TECHNOLOGY**

Functional Major, Bachelor of Science Degree (43-384)

The graduate with a Medical Technology Functional Major, Bachelor of Science Degree will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems. (managing information)
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology)
- Think logically within the scientific parameters of professional biologists. (higher-order thinking)
- Use the language and concepts of Biology to communicate effectively in oral and written form; to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting)
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing)
- Challenge the licensure exam of the National Accrediting Agency for Clinical Laboratory Scientists (NAACLS) to become a certified Medical Technologist (ASCP) or Clinical Laboratory Scientist (ASCP) after completing a 12-month clinical rotation at an affiliated hospital.
- Be eligible to apply for graduate/professional training in nearly all medical fields.

Sem. Hours

|                                    |                           |   |
|------------------------------------|---------------------------|---|
| FUNCTIONAL MAJOR REQUIREMENTS .. - |                           |   |
| BIOL 1000                          | The Discipline of Biology | 1 |
| BIOL 1111                          | Biology I                 | 4 |
| BIOL 2401                          | Anatomy & Physiology I    | 4 |
| BIOL 2402                          | Anatomy & Physiology II   | 4 |
| BIOL 2511                          | Genetics                  | 4 |



BIOL 1000 Biology Colloquium\* (1) Investigation of professional opportunities in biology. Evaluation of the program by students and assessment of student progress in biology. Prerequisite: 24 semester hours of biology or consent of department chair. \*Not available for graduate credit.

BIOL 1111 Special Problems in Biology (1- ) Individual work under supervision of a staff member. Problems may be undertaken in any field of biology. May be repeated for a maximum of 4 semester hours. Prerequisite: consent of instructor.

BIOL 1101 Special Projects in Biology (1- ) May be repeated for a maximum of 9 semester hours. With permission of the Department Chair, functional majors in medical technology may repeat for a maximum of 30 semester hours. Prerequisite: consent of instructor.

BIOL 1112 Introduction to Experimental Design and Analysis (2 ) This course covers the conceptualization, implementation, analysis, and communication of research in biology. Prerequisites: BIOL 1111

## Earth Science

### EARTH SCIENCE

Major, Bachelor of Arts Degree  
(42-386)

The graduate with a Bachelor of Arts degree in Earth Science will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems (managing information)
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology)
- Think logically within an earth science framework and be receptive to new ideas and concepts. (higher-order thinking)
- Use the language and concepts of earth science to communicate effectively in oral and written form, to follow instructions precisely and to function in independent and collaborative settings. (communicating and interacting)
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing)

Sem. Hours

MAJOR REQUIREMENTS . . . . . ?

|                                       |   |    |
|---------------------------------------|---|----|
| EASC 1004                             | Intro. to the Sciences: Geology . . . . . | 4  |
| EASC 3010                             | Environmental Geology . . . . .           | 3  |
| EASC 3110                             | Structural Geology . . . . .              | 4  |
| EASC 2200                             | Historical Geology . . . . .              | 4  |
| EASC 3501                             | Invertebrate Paleontology . . . . .       | 4  |
| Elective from the following . . . . . |   | 4  |
| EASC 3320                             | Mineralogy . . . . .                      | 4  |
| EASC 4301                             | Minerals & Rocks . . . . .                | 4  |
| Elective from the following . . . . . |   | 3  |
| GEOG 4210                             | Remote Sensing and Image Inter. . . . .   | 3  |
| GEOG 4220                             | Geographic Info. Systems I . . . . .      | 3  |
| *AGRI 2330                            | Intro. to Soil Science . . . . .          | 3  |
| Electives in Earth Science . . . . .  |   | 13 |

MINOR REQUIREMENTS . . . . . 1 -

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the major, EASC 1004 fulfills 4 s.h. of Div. II A; the Modern Language Requirement fulfills 3 s.h. of Div. II C . . . . . ?

MODERN LANGUAGE REQUIREMENT . . . . . ? -

Refer to Bachelor's Degree Requirements section for fulfillment options.

FREE ELECTIVES . . . . . 10- ?

MINIMUM TOTAL . . . . . 1

\*Course has prerequisite(s) not listed in the program.

### EARTH SCIENCE

Functional Major, Bachelor of Science in Education Degree  
Unified science certification to teach any of the beginning sciences (i.e., Biology I, Chemistry I) etc. and all levels of earth science, grades 9-12  
(41-488)

The graduate with a Earth Science Functional Major, Bachelor of Science in Education Degree will use the knowledge and skills obtained in the program to:

- Challenge the Praxis and C-BASE exams allowing them to be licensed as teachers upon successful completion of these exams.

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# GEOLOGY

Functional Major, Bachelor of Science Degree  
(43-388)

The graduate with a Functional Major Bachelor of Science degree in Geology will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems. (managing information)
- Use various field and laboratory techniques and/or instruments with understanding, accuracy, precision and safety. (technology)
- Think logically and apply knowledge within a geological framework to develop maps and cross-sections of the Earth. Be receptive to new ideas and concepts. (higher-order thinking)
- Use the language and concepts of geology to communicate effectively in oral and written form, to follow detailed instructions and to function in independent and collaborative settings. (communicating and interacting)
- Exhibit the ethical use of knowledge, materials and procedures that demonstrates an impact on society. (valuing)

Sem. Hours

|   |                                      |         |
|---|--------------------------------------|---------|
| FUNCTIONAL MAJOR REQUIREMENTS                 | .....                                | -/      |
| EASC 1004                                     | Intro. to the Sciences: Geology      | ..... 4 |
| EASC 2200                                     | Historical Geology                   | ..... 4 |
| EASC 3110                                     | Structural Geology                   | ..... 4 |
| EASC 3320                                     | Mineralogy                           | ..... 4 |
| EASC 4325                                     | Petrology                            | ..... 4 |
| EASC 4420                                     | Sedimentary Petrology & Stratigraphy | ..... 5 |
| GEOG 4220                                     | Geographic Information Systems I     | ..... 3 |
| CHEM 1131                                     | General Chemistry I                  | ..... 5 |
| CHEM 1132                                     | General Chemistry II                 | ..... 5 |
| Summer field course at an approved university | .....                                | 6       |
| Elect three courses from the following        | .....                                | 9-11    |
| EASC 2100                                     | Engineering Geology                  | .....4  |
| EASC 3010                                     | Environmental Geology                | .....3  |

EASC 1010 Special Problems in Geology (1-3) Individual work under supervision of a staff member. Problems may be undertaken in any area of geology. May be repeated for a maximum of 9 semester hours. Prerequisite: adequate preparation in that field and consent.

EASC 1001 Minerals and Rocks (3) The origin and classification of minerals and rocks in a course designed primarily for teachers of earth science. Methods and techniques of identification are stressed. Prerequisite: EASC 1004. An additional fee is associated with this course.

EASC 1000 Geochemistry (3) Application of chemical principles to the study of earth and environmental systems. Topics include origin and distribution of elements, stable and radiogenic isotopes, thermodynamics, aqueous and environmental geochemistry, and geochemical cycles. Prerequisites: EASC 1004 and EASC 3320.

EASC 1002 Petrology (3) Igneous and metamorphic rocks. Includes consideration of processes of formation and identification of rock types. Prerequisite: EASC 3320. An additional fee is associated with this course.

EASC 1003 Sedimentary Petrology and Stratigraphy (3) The description and classification of sedimentary rocks and the principles of stratigraphy. Laboratory exercises will focus on hand specimen petrology and subsurface stratigraphic analysis. Field work will deal with measured stratigraphic sections. Prerequisite: EASC 3320. An additional fee is associated with this course.

EASC 1000 Fossils of Missouri (3) Emphasis on collecting and identifying fossils in order to prepare teachers for teaching the fundamental aspects of common fossils from Missouri. Prerequisite: EASC 1004.

# Chemistry and Physics

## Chemistry

In the section of Chemistry, the second digit in the course number stands for the following: 0-Unclassified, 1-Inorganic, 2-Analytical, 3-Organic, 4-Biochemistry, 5-Physical, 6-Organic and Biochemistry, 9-Research and Special Problems.

### Chemistry Statement of Policy

All junior and senior chemistry majors are required to attend oral presentations by students who are enrolled in CHEM 4900 and CHEM 4910.

Prior to student teaching, all Bachelor of Science in Education Chemistry Functional majors are required to serve as a lab assistant or lab preparation assistant for one semester in partial fulfillment of CHEM 4900.

\*Students must attend the first scheduled lab period to avoid being dropped from the lab to accommodate students on the wait list.

### Accreditation

The Chemistry programs are accredited by the American Chemical Society. The American Chemical Society is located at 1155 Sixteenth St, N.W., Washington, DC 20036; phone 800-227-5558; webpage <http://www.chemistry.org>.

## CHEMISTRY

Major, Bachelor of Arts Degree  
(42-391)

The graduate with a Bachelor of Arts degree in Chemistry will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).
- Think logically within a chemistry framework and be receptive to new ideas and concepts (higher-order thinking).
- Use the language and concepts of chemistry to communicate effectively in oral and written form, to follow detailed instructions, and to function in independent and collaborative settings (communicating and interacting).
- Exhibit the ethical use of knowledge, materials and procedures that demonstrate an impact on society (valuing).

Sem. Hours

|                             |  |
|-----------------------------|--|
| MAJOR REQUIREMENTS          | ..... ? 3                                |
| CHEM 1131                   | General Chemistry I ..... 5              |
| CHEM 1132                   | General Chemistry II ..... 5             |
| CHEM 3111                   | Intermediate Inorganic Chemistry ..... 4 |
| CHEM 3212                   | Quantitative Analysis ..... 3            |
| CHEM 3341                   | Organic Chemistry I ..... 4              |
| CHEM 3342                   | Organic Chemistry II ..... 4             |
| CHEM 3500                   | Elements of Physical Chemistry ..... 4   |
| CHEM 3920                   | Communication Skills in Chem. .... 2     |
| CHEM 4421                   | Biochemistry ..... 4                     |
| Elective from the following | ..... 3-4                                |
| *CHEM 4111                  | Advanced Inorganic Chemistry ..... 4     |
| *CHEM 4231                  | Instrumental Analysis ..... 4            |
| *CHEM 4313                  | Modern Organic Analysis ..... 4          |
| CHEM 4910                   | Research in Chemistry ..... .            |







CHEM 410 Research in Chemistry (1- ) Individual work on a chemical research project under supervision of a staff member. Project will terminate in a written and oral presentation. May be repeated for a maximum of 10 semester hours. Prerequisite: Consent of instructor and department.

CHEM 411 Special Problems in Chemistry (1-3 ) Individual work under supervision of a staff member. May be repeated for a maximum of 3 semester hours. Prerequisite: consent.

## Physics

In the section of Physics, the second digit in the course number stands for the following: 0-Laboratory and Unclassified, 1-General, 2-Mechanics, 3-Electricity, 4-Thermodynamics, 5-Modern Physics, 6-Light and Sound, 7-Particle, 8-Electronics, 9-Research and Special Problems.

### PHYSICS

Functional Major, Bachelor of Arts Degree  
(42-396)

The graduate with a Bachelor of Arts degree in Physics will use the knowledge and skills obtained in the program to:

- Collect, analyze and apply information to solve problems (managing information & higher-order thinking).
- Use various laboratory techniques and/or instruments with understanding, accuracy, precision and safety (technology).

|  |      |                             |     |
|--|------|-----------------------------|-----|
| PHYS   | 2122 | University Physics II       | 5   |
| PHYS   | 3080 | Advanced Physics Lab        | 2-3 |
| PHYS   | 3511 | Modern Physics I            | 3   |
| Departmentally approved electives from the following |      |                             | 6   |
| PHYS   | 3512 | Modern Physics II           | 3   |
| PHYS   | 3611 | Optics                      | 3   |
| PHYS   | 4312 | Electricity & Magnetism     | 3   |
| PHYS   | 4411 | Thermodynamics              | 3   |
| PHYS   | 4512 | Intro. to Quantum Mechanics | 3   |
| PHYS   | 4513 | Solid State Physics         | 3   |
| PHYS   | 4711 | Atomic & Nuclear Physics    | 3   |



# Mathematics and Computer Science

## Department of Mathematics and Computer Science Statement of Policy

A course with a grade lower than a "C" will not be allowed to fulfill a major or minor requirement in any program offered by the Department of Mathematics and Computer Science.

A student may enroll in a course offered by the Department of Mathematics and Computer Science only if a grade of at least "C" is earned in each of the course's prerequisites taken.

## MATHEMATICS

In the Department of Mathematics and Computer Science, the second digit in a course number with a MATH prefix stands for the following: 0-Unclassified, 1-Analysis, 2-Geometry, 3-Statistics, 4-Discrete Mathematics, 5-Actuarial Science, 6-General Education, 7-Modern Algebra, 8-Mathematics Education, 9-Research and Special Problems.

## ACTUARIAL SCIENCE AND MATHEMATICS

Functional Major, Bachelor of Science Degree  
(43-475)

A graduate with a Bachelor of Science degree in Actuarial Science and Mathematics will use the knowledge and skills obtained in the program to:

- Integrate and apply knowledge in the areas of mathematics, statistics, finance, and economics.
- Develop an aptitude for problem solving and apply mathematical, statistical, and financial models in the actuarial area.
- Develop critical thinking skills and the ability to study independently.
- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.
- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Think logically, develop algorithms, implement the algorithms in an appropriate computer language, and solve problems with the algorithms.
- Value mathematics and actuarial science for their diverse and related contributions to mathematically based disciplines.
- Achieve a score of at least 3 on the Society of Actuaries Course 1 exam and prepare for Course 2 and part of Course 3 and Course 4.
- Establish a career in actuarial science, mathematics, or related fields and prepare for entry-level positions in business, industry, government, or public education.
- Prepare for graduate study in mathematics, actuarial science, or related fields.

NOTE Candidates for this degree must: (1) achieve a score of 3 or above in course P of the Actuarial Examination Series and (2) possess a 3.00 grade-point average overall and in the major.

Sem. Hours

## FUNCTIONAL MAJOR REQUIREMENTS . . . . . ? -

|           |  |   |
|-----------|--|---|
| MATH 1151 | Calculus & Analytic Geometry I . . . . .         | 5 |
| MATH 1152 | Calculus & Analytic Geometry II . . . . .        | 5 |
| MATH 2153 | Calculus & Analytic Geometry III . . . . .       | 3 |
| MATH 2310 | Applied Statistics . . . . .                     | 3 |
| MATH 3311 | Introduction to Mathematical Statistics. . . . . | 3 |
| MATH 4312 | Probability Models . . . . .                     | 3 |
| MATH 2410 | Discrete Mathematics . . . . .                   | 3 |
| MATH 4501 | Actuarial Exam Review Problem Set I. . . . .     | 1 |
| MATH 4510 | Mathematics of Finance . . . . .                 | 3 |
| MATH 4511 | Actuarial Exam Review Problem Set II . . . . .   | 1 |
| MATH 4520 | Life Contingencies . . . . .                     | 3 |
| MATH 4530 | Actuarial Modeling. . . . .                      | 3 |
| MATH 3710 | Linear Algebra . . . . .                         | 3 |

|  |                                       |     |
|--|---------------------------------------|-----|
| CS 1100                                | Computer Programming I . . . . .      | 3   |
| CS 2800                                | Interactive Sys. Design . . . . .     | 3   |
| ECON 3010                              | Intermediate Macroeconomics . . . . . | 3   |
| FIN 3861                               | Financial Management I . . . . .      | 3   |
| FIN 4803                               | Principles of Insurance . . . . .     | 3   |
| FIN 4817                               | Managing Fin. Derivatives . . . . .   | 3   |
| Electives from the following . . . . . |                                       | 6-7 |
| MATH 3151                              | Differential Equations . . . . .      | 3   |
| MATH 3160                              | Advanced Applied Calculus . . . . .   | 3   |
| MATH 3720                              | Algebraic Structures . . . . .        | 2   |
| CS 4420                                | Sys. Simulation & Modeling . . . . .  | 3   |
| ECON 3030                              | Intermediate Microeconomics . . . . . | 3   |
| FIN 3850                               | Principles of Finance . . . . .       | 3   |

GENERAL EDUCATION REQUIREMENTS (pages 34-43) In the functional major, MATH 1151 is allowed to fulfill 3 s.h. of Div. I C . . . . .

## MATHEMATICS

Major, Bachelor of Science Degree  
(43-454)

A graduate with a Bachelor of Science degree in Mathematics will use the knowledge and skills obtained in the program to:

- Interpret and utilize precise mathematical language involving definitions, statements, and proofs.
- Examine, describe, and represent functions of various types using analysis techniques.
- Solve a variety of mathematics problems and applications using analytic, numeric, and graphing techniques.
- Apply a variety of mathematical models in the solution of problems and applications.
- Think logically, develop algorithms, implement the algorithms in a computer language, and solve problems with the algorithms.











## Numerical and Symbolic Computation

CS 1400 Discrete Structures I (C) Basic concepts of sets, mathematical induction, principle of inclusion-exclusion, logic, binary relations, relations and functions, sequences and subsequences, and the pigeon-hole principle. Prerequisites: High school mathematics including algebra or MATH 1111.

CS 1400 Discrete Structures II (C) Basic concepts: analysis of algorithms, graph theory, counting and combinatorics, discrete probability, and recurrence relations. Prerequisites: CS 1400 or MATH 2410.

CS 1400 Numerical Analysis I (C) Finite difference interpolation, numerical differentiation and integration, numerical solution of nonlinear equations, numerical solution of ordinary differential equations. Computational techniques stressed and extensive quantity of problems to be solved on a digital computer. Prerequisites: CS 1110 and MATH 1152.

CS 1400 Operations Research (C) Systems and models, including Random Number Process, (Monte Carlo Process) and Queuing Concepts. Combining these concepts into model building techniques. Prerequisites: CS 1110 and MATH 3311, or CIS 2615 and FIN 2801.

CS 1400 System Simulation and Modeling (C) Model construction and simulation applied to problems taken from finance, statistics, sciences, communication networks and computer systems. Application projects using different simulation languages required. Prerequisites: CS 1100 and MATH 3311.

## Operating Systems

CS 1400 UNIX Systems Programming (C) Introduction to UNIX systems programming. Topics include: processes and threads, I/O, files and directories, UNIX special files, signals, concurrency, communication, and shell programming. Prerequisite: CS 1110 or consent of instructor.

CS 1400 Operating Systems (C) An introduction to operating systems. Topics include: processes, threads, CPU scheduling, process synchronization, deadlock, memory, file systems.

# Military Science and Leadership

In the Department of Military Science and Leadership, the second









## CONSTRUCTION MANAGEMENT

Functional Major, Bachelor of Science Degree  
(43-239)

The graduate with a Bachelor of Science degree with a functional major in Construction Management will use the knowledge and skills obtained in the program to:

- Apply oral, written, graphic and listening skills as each enhances the behavioral principles or attitude and effective communications.
- Apply scientific knowledge of the mathematical, physical, and

CMGT 2310 Advanced Estimating and Cost Analysis (C) An advanced course in construction cost estimating utilizing the computer and associated professional software to assist the estimator. Prerequisites: CMGT 2310 and CMGT 2325.

CMGT 2325 Mechanical Systems for Buildings (C) Mechanical systems integrated with buildings and other equipment. Prerequisites: CMGT 2310 or junior standing.

CMGT 2326 Solar Energy for Building Construction (C) An analysis of solar energy systems and components as they apply to types of structure, sites, and climate regions.

CMGT 2327 Computer-Based Project Control (C) An advanced course in construction project scheduling utilizing the computer and associated professional software to assist the project scheduler. Prerequisites: CMGT 3355.

CMGT 2330 Heavy Equipment (C) Survey of the types, uses, and economics of heavy equipment utilized in the construction industry. Prerequisites: CMGT 2310, MATH 1111.

#### Integrative Studies Capstone

ICAP 3355 Construction Operations\* (C) A detailed study of the knowledge, processes and operational procedures involved in a commercial construction project. Prerequisites: CMGT 2310, CMGT 2325, CMGT 3320 and CMGT 3355 and senior standing. \*Not available for graduate credit.

## ELECTRONICS ENGINEERING TECHNOLOGY

Functional Major, Bachelor of Science Degree  
(43-227)

This program has been placed in abeyance. See the Department Chair for more information.

#### Electronics Engineering Technology

Some EET courses have a zero-credit laboratory requirement. The majority of the EET courses utilize an open lab system (where the student is expected to complete laboratory work by the instructor's due date on his/her own time, as class schedules and lab equipment availability permit).

EET 2000 Calculus for Electronics Engineering Technology (C) Methods of integration, partial derivatives, double integrals, derivatives and integrals in polar coordinates; empirical curve fitting, power series expansions, first and second-order differential equations; and use of software. Prerequisite: INDT 2040.

EET 2010 Advanced Digital Circuitry (C) Design of sequential networks, iterative networks, sequential networks with MSI integrated circuits, sequential networks using PLDs, state machines, asynchronous sequential networks, use of software for design analysis. Prerequisite: ET 1050.

EET 2020 Transform Analysis (C) Waveform analysis, Laplace transforms and their application to circuit analysis; Fourier analysis, use of z-transforms in discrete-time systems, and analysis software. Prerequisites: INDT 2040 and ET 2048.

EET 2030 Control of Electrical Machinery (C) (2 lecture, 1 lab) Analysis and application of electrical and electronic controls for industrial equipment. Programmable Logic Controllers are emphasized as well as techniques in engineering design. Prerequisite: ET 1010 or ET 1027 or consent of instructor.

EET 2040 Microprocessor Systems Design (C) Microprocessor/microcontroller internal architectures and timing; single and multiprocessor bus structures; memory subsystem design, designing polled I/O hardware/firmware, interrupt driven I/O hardware/firmware design, DMA, design of multiprocessor systems, segmentation and memory management, bit-sliced architectures, and use of manufacturer data sheets and application notes. Prerequisites: INDT 2040 and ET 2060.

EET 2050 Introduction to Data Communications (C) Fundamentals of data transmission, data encoding, multiplexing techniques, circuit and packet switching; local area networking, ISDN, frame relay, ATM, local area networking, and protocol analysis. Prerequisites: ET 2060, EET 2330 or concurrently.

EET 2060 Introduction to Communication Systems (C) Signal spectra, noise, AM transmitters, AM superheterodyne receivers, sideband systems, frequency modulation, phase modulation, phase-locked loops, FM transceivers, transmission lines, waveguides, radiowave propagation, antennas, and use of CAE software. Prerequisites: EET 2330 and EET 3310.

EET 2070 Control Systems Design (C) Introduction to analog control systems analysis and design including control system components, models of physical systems, state-variable models, system responses, control system characteristics, stability analysis, and use of CAE software. Prerequisites: ET 2058, EET 2300 or concurrently, and EET 2330.

EET 2080 Special Projects in Electronics Engineering Technology\* (1-2) Investigation of contemporary problems and issues in electronics engineering technology by selected individuals or groups. May be repeated for a maximum of 6 semester hours. \*Not available for graduate credit.

EET 2090 Advanced Control Systems Design\* (C) Root-locus analysis and design; frequency response, modern control design, discrete-time systems, sampled-data systems, analysis and design of digital control systems; an introduction to nonlinear system analysis, and use of CAE software for the design, analysis, design, and simulation of control systems. Prerequisite: EET 3310 and EET 3340. \*Not available for graduate credit.

EET 2100 Digital Signal Processing Systems Design\* (C) An introduction to the engineering fundamentals of digital signal processing. Emphasis is placed on the design, implementation, and testing of finite impulse response filters, infinite impulse response filters, adaptive digital filters, and sampling rate converter-decimators using DSP software design packages. Prerequisites: ET 2065, EET 2320, EET 2330, and EET 3310. \*Not available for graduate credit.

ELECTRONICS T f 1 ? / Investisubsystemnd \*(system In(e



ET 201 / Industrial Electronics (3 lecture, 1 lab) Analysis of selected industrial controls and components to include transducers, sensors, time delay circuits, motor controls, and thyristors. Emphasis on commercial programmable logic controller installation and programming. Practical applications of industrial electronic devices and systems and further development of troubleshooting skills. Prerequisite: ET 1010 or ET 1026 or consent.

ET 200 Circuit Analysis and Implementation (3 lecture, 1 lab) Research, analyze, and construct a variety of circuits using state-of-the-art technologies. Students will use the internet and published materials

ET 200 AC and DC Machines (3 lecture, 1 lab) Basic principles of operation, theory of induction, theory of synchronous machines. Prerequisite: ET 2048 or consent of instructor.

ET 202 Electronic Instruments and Measurements (3) Design, operation and calibration of a variety of test instruments. Emphasis will be upon measurement procedures not normally practiced in

currently.

ET 202 Audio Systems (3 lecture, 1 lab) Principles of sound and acoustics: audio amplifiers, microphones, speakers, mixers, and equalizers; magnetic tape and disc recording; audio measurement techniques. Prerequisite: ET 2058 or concurrently.

ET 203 Communication Systems (3 lecture, 1 lab) A study of receiver and transmitter circuits and systems. Modulation, signal propagation, and antenna design. Practical alignment methods, measurement techniques, and troubleshooting procedures. Preparation for the F.C.C. commercial license. Prerequisite: ET 2048 or concurrently.

ET 400 Special Projects in Electronics Technology (1-2) Investigation of selected individuals or groups. May be repeated for a maximum of 6 semester hours.

ET 401 Advanced Technical Problems in Electronics (1-2) Individual/group work on recent developments and advanced technical concepts. Experimentation and technical exploration of interest not available through formal course offerings. May be repeated for a maximum of 8 semester hours.

lab) Implementation, evaluation, tuning and troubleshooting of process control systems. Selection of sensing devices and final control elements. Emphasis on laboratory activities. Application of microprocessor-based systems including programmable controllers. Prerequisites: ET 2020 or consent of instructor. \*Not available for graduate credit.

ET 402 Video Systems\* (3 lecture, 1 lab) Television cameras

and the composite video, UHF cable and stereo television systems. Prerequisite: 120.996 (television) 00.09520352 receiver and troubleshooting techniques. Prerequisite: 2048 -0.02467179 (Not available for) (60094 TL) graduate credit. /R427 8 Tf 9.59906 TL (ET 40448 Advanced T

NET 100 Network Device Configuration (1 lecture, 1 lab)  
A comprehensive overview of Cisco Systems device configuration.  
Prerequisites: Required for non-NET specialist. Not open to NET specialist.

NET 100 Managerial Design for Secure Networks (1) Utilizing Cisco Systems Architecture for Voice, Video and Integrated Data



|  |      |   |    |
|--|------|---|----|
| GRAP   | 3024 | Flexographic Technology . . . . .           | 3  |
| GRAP   | 3034 | Offset Press Technology . . . . .           | 3  |
| GRAP   | 3043 | Binding, Finishing & Distribution . . . . . | 3  |
| GRAP   | 3045 | Substrates & Inks . . . . .                 | 4  |
| GRAP   | 3051 | Graphic Arts Management . . . . .           | 3  |
| GRAP   | 3057 | Graphic Arts Quality Assurance . . . . .    | 3  |
| GRAP   | 4038 | Color Science . . . . .                     | 4  |
| GRAP   | 4053 | Graphic Arts Production Analysis . . . . .  | 3  |
| GRAP   | 4055 | Printing Estimating & Costing . . . . .     | 3  |
| GRAP   | 4095 | Senior Seminar in Graphic Arts . . . . .    | 1  |
| ACCT   | 2100 | Survey of Accounting . . . . .              | 3  |
| MGT  | 3325 | Business Communications . . . . .           | 3  |
| GRAP   | 3016 | Graphic Arts Practicum, 3 or                |    |
| T&OE   | 3022 | Internship in Technology, 3 . . . . .       | 3  |
| INDM   | 4210 | Industrial Management, 3 or                 |    |
| MGT  | 3310 | Principles of Management, 3 . . . . .       | 3  |
| Departmentally Approved Electives (and/or with<br>Advisor consent) from one of the following areas . . . . . |      |   | 12 |
| Area 1 Customer Service and Sales  |      |   |    |
| Area 2 Graphic Design  |      |   |    |
| Area 3 Multimedia/Imaging  |      |   |    |

GRAP 2030 Color Science (3) Technical aspects of process color reproduction; includes color theory, ink evaluation, densitometry, tone reproduction, printing characteristics, color correction, gray balance, color separation, and proofing. Laboratory experiences support lecture/theory content. Prerequisite: GRAP 2032.

GRAP 2031 Advanced Digital Imaging Processing (3) Advanced image manipulation techniques as related to color and correction with special techniques for the printing and imaging industry. Prerequisite: GRAP 2031 and GRAP 2032.

GRAP 3051 Print Production (3) Applied experiences in management and technological applications in the production of printed material including prepress, press, and post press operations. Prerequisites: GRAP 2032, GRAP 2035, and GRAP 3051.

GRAP 3034 Graphic Arts Production Analysis (3) A variety of printing requests are analyzed to determine printing specifications, production sequence, cost factors, material ordering, and technical problems that may arise during the actual printing. Course emphasis utilizes this analysis into a planning sequence of communications, scheduling, routing, dispatching, and work and material flow required for printing production. Prerequisites: GRAP 2035, GRAP 3034 and GRAP 3045.

GRAP 3051 Printing Estimating and Costing (3) Identification of costs relative to materials, operations, and labor utilized in the production of printed matter. Budgeting, forecasting, cost accounting, and budgeted hourly rates. Prerequisites: GRAP 3051 and GRAP 4053.

GRAP 4053 Senior Seminar in Graphic Arts (1)





## MANUFACTURING

Minor for a Bachelor's Degree

UCM does not confer teacher certification for this minor  
(153)

Sem. Hours

### MINOR REQUIREMENTS . . . . .

|  |   |    |
|--|---|----|
| MMGT 2040                              | Engineering Material Science . . . . .    | 4  |
| MMGT 2530                              | Machine Tool Technology . . . . .         | 3  |
| MMGT 3550                              | Principles of Numerical Control . . . . . | 3  |
| Electives from the following . . . . . |   | 12 |
| MMGT 1510                              | Intro. to Manufac. Processes . . . . .    | 3  |
| MMGT 2515                              | Applied Manufac. Processes . . . . .      | 3  |
| MMGT 3562                              | Computer Numerical Control (CNC) . . .    | 3  |
| MMGT 4520                              | Robotics & Automation . . . . .           | 3  |
| MMGT 3530                              | Inspection & Quality Control . . . . .    | 3  |
| GRAP 1110                              | Fundamentals of Drafting . . . . .        | 2  |
| GRAP 2170                              | Intro. to Computer-Aided Drafting . . .   | 2  |

### Manufacturing Management

- MMGT 1010 Materials for Manufacturing and Construction ( )  
Construction materials, including sources, characteristics, uses, and standard sizes and packaging, with relative values of different grades.
- MMGT 101 Global Production Technology ( ) Study of production

INDM 100 Quality Control Management (3) Overall approach to quality and the control activities of management. Technical aspects of management control systems, statistical analysis, statistical quality control, and management concepts are emphasized. Prerequisite: background statistics course.

INDM 101 Facilities Engineering (3) Provides students and practitioners with the practical resources that describe the techniques and procedures for developing an efficient facility layout and an

PHOT 0 Portrait Photography ( ) Experiences in portrait photography with an emphasis on professional techniques, and the operation of specialized equipment utilized in the field.

Prerequisite: PHOT 1210.

PHOT 0 Digital Portfolio ( ) Develop knowledge and skills in planning, researching, formatting, sequencing and producing a multi-image digital portfolio. Prerequisite: PHOT 3230.

PHOT 0 Advanced Studio Techniques ( ) Provide an advanced experience in directed studio photographic communication.

Prerequisite: PHOT 2210.

PHOT 0 Architectural Photography ( ) Architectural photography is the imaging of the man-made structures to convey the experience of being in and around a built environment. Prerequisite: PHOT 2210.

PHOT 00 Color Imaging ( ) In-depth experience in exposing, manipulating and printing color images. Prerequisites: PHOT 2210, PHOT 2200, PHOT 3230.

PHOT 10 Wedding & Location Photography ( ) Provide advanced instruction and practice in non studio portrait photography using professional light control techniques. Prerequisite: PHOT 3250.

PHOT 1 Advanced Technical Problems in Photography (1-2 ) individual or group work on advanced technical problems in photography. Provide exploration of content not available through normal course offerings. May be repeated for a maximum of 6 semester hours. Prerequisites: minimum 2.5 GPA, written contract/proposal with objectives and written department consent.

PHOT 1 Photographer's Forum (1) Seminar for student portfolio presentation and for study of current events in photography through open discussions, activities, and outside speakers. \*Not available for graduate credit.


PHOT 0 Advanced Digital Imaging ( ) An advanced study of digital image editing systems used to manipulate, modify and composite images for photographic illustration. Prerequisite: PHOT 3230.

PHOT 0 Business Management for Photographers ( ) Exploratory experiences, information and techniques concerning the use of computer hardware and software use for photographic business management. Prerequisite: PHOT 3250.



Technology

AE 1 0 MS Office Word (0. ) An individualized, arranged course

ICAP  Actuarial Science Capstone Experience\* ( ) Integration of actuarial science topics and skills with topics from various other disciplines, including actuarial ethics, social roles, and the Code

To assist students in their course planning, Central Missouri academic departments have developed four-year plans to illustrate how students majoring in specific areas of study might organize their courses so that they may finish their degree program in four years. Obviously, every student's situation is unique and an individual's four-year plan will vary. For example, there may be course prerequisites that may need to be satisfied before a specific course is taken. In addition, a student may already have college

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**Accounting Functional Major, B.S.B.A. Degree**

2/2007

This is the recommended program of study for the Accounting Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Accounting for further information or guidance.

**Accounting Major, B.S.B.A. Degree - 124 Hours**



200 **Four-Year Academic Plans**

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|   |             |
|---|-------------|
| <b>Freshman Year - First Semester</b>     | <b>Hrs.</b> |
| AGRI 1110 Introduction to Agriculture     | 1           |
| AGRI 1420 Animal Husbandry                | 3           |
| CHEM 1104 Intro. to Sciences: Chem. (Lab) | 4           |
| ENGL 1020 Composition I                   | 3           |
| COMM 1000 Public Speaking                 | 3           |
| AGRI 1300 Introductory Plant Science      | 1           |
| <b>Semester Total</b>                     | <b>15</b>   |

|   |             |
|---|-------------|
| <b>Freshman Year - Second Semester</b>            | <b>Hrs.</b> |
| AGRI 2425 Livestock Evaluation (Lab)              | 3           |
| ECON 1011 Principles of Microeconomics            | 3           |
| ENGL 1030 Composition II                          | 3           |
| MATH 1111 College Algebra                         | 3           |
| AGRI 1600 Introductory Horticulture Science (Lab) | 3           |
| <b>Semester Total</b>                             | <b>15</b>   |

|   |             |
|---|-------------|
| <b>Sophomore Year - First Semester</b>        | <b>Hrs.</b> |
| AGRI 2010 Computer Apps. for Agriculturalists | 3           |
| FIN 1820 Personal Finance                     | 3           |
| AGRI 2330 Introduction to Soil Science (Lab)  | 3           |
| AGRI 1200 Agriculture Mechanics (Lab)*        | 3           |
| HIST 1350 or 1351 or POLS 1510                | 3           |
| General Education                             | 3           |
| <b>Semester Total</b>                         | <b>18</b>   |

|   |             |
|---|-------------|
| <b>Sophomore Year - Second Semester</b>         | <b>Hrs.</b> |
| AGRI 2315 Agronomy II: Forages**                | 2           |
| ACCT 2101 Principles of Financial Accounting*** | 3           |
| ECON 1010 Principles of Macroeconomics          | 3           |
| AGRI 2130 Global Agriculture                    | 3           |
| General Education                               | 6           |
| <b>Semester Total</b>                           | <b>17</b>   |

|  |             |
|--|-------------|
| <b>Junior Year - First Semester</b>            | <b>Hrs.</b> |
| AGRI 3140 Agricultural Analysis and Statistics | 3           |
| AGRI 3110 Agriculture Business Management      | 3           |
| MKT 3430 Personal Selling                      | 3           |
| AGRI 3420 Animal Nutrition                     | 3           |
| ECON 3030 Intermediate Microeconomics          | 3           |
| <b>Semester Total</b>                          | <b>15</b>   |

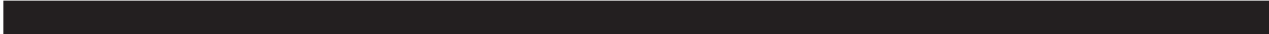
**Junior Year - Second Semester**

Agricultural Technology - Agricultural Mechanization Functional Major, B.S. Degree 2/2007









Freshman Year - First Semester

Art Functional Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the Art Functional Major, B





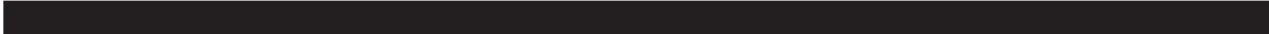




Freshman Year - First Semester  
PR&T 1010 Power Mechanics



|                                      | Hrs. |
|--------------------------------------|------|
| Freshman Year - First Semester       |      |
| PR&T 1010 Power Mechanics            |      |
| ET 1026 DC Circuit Analysis          |      |
| MATH 1111 College Algebra            |      |
| ENGL 1020 Composition I              |      |
| AE 1400 Student Development Seminar* |      |
| Semester Total                       |      |

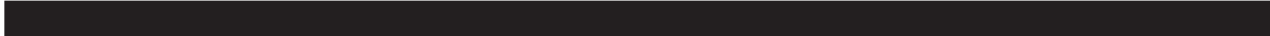




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**Aviation Technology: Systems Design Technology Functional Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1

**Biology Major, B.A. Degree**

2/2007

This is the recommended program of study for the Biology Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

**Biology Major, B.A. Degree - 124 hours**

- \*Refer to the Bachelor's Degree Requirements section of the catalog for the B.A. Modern Language requirement. This plan is based on nine hours of modern language.
- This plan is based on a 21-hour minor.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Pla





**Biology Functional Major (Biomedical/Molecular Studies), B.S. Degree**

2/2007

This is the recommended program of study for the Biology Functional Major (Biomedical/Molecular Studies), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students

Biology Functional Major (Conservation Enforcement), B.S. Degree

2/2007











**Business Education Functional Major, B.S. in Ed. Degree, No Minor Required**

2/2007

This is the recommended program of study for the Business Education Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career & Technology Education for further information or guidance.

**Business Education Functional Major, B.S. in Ed. Degree - 124 hours**

- AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- \*For admission to teacher education, a student must have a minimum of 48 credit hours earned ( at least six at Central); have passed the C-BASE general education test; and have a cumulative GPA no less than 2.5. See current

Chemistry Major, B.A. Degree











**Commercial Art Functional Major (Graphic Design Option), B.F.A. Degree**

2/2007

This is the recommended program of study for the Commercial Art Functional Major (Graphic Design Option), B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Art for further information and guidance on prerequisites and required course sequence in your area of emphasis.

**Commercial Art Major (Graphic Design Option), B.F.A. Degree - 129 hours**



Commercial Art Functional Major (Illustration Option), B.F.A. Degree

2/2007

This is the recommended program of study for the Commercial Art Functiona

Communication Major, B.A. Degree

2/2007

This is the recommended program of study for the Communication Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

Communication Major, B.A. Degree - 124 hours

- \*Refer to the Bachelor's Degree Requirements section for fulfillment options of the B.A. Modern Language

**Computer-Aided Drafting & Design Technology Functional Major, B.S. Degree**

2/2006

This is the recommended program of study for the Computer-Aided Drafting & Design Technology Functional Major, B.S. Degree at University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Graphic Imaging & Design Technology f

Computer Information Systems Functional Major, B.S.B.A. Degree

2/2007

This is the recommended program of study for the Computer Information Systems Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Computer Information Systems for further information or guidance.

Computer Information Systems Major, B.S.B.A. Degree - 124 Hours

- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take





This is the recommended program of study for the Cooperative Engineering 3-2, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Physics for further information or guidance.

**Cooperative Engineering 3-2, B.A. Degree – 96 hours**

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at UCM.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- \*\*\*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on 2 modern language courses and ENGL 2220 for General Education Literature.
- University of Central Missouri, through the Department of Chemistry and Physics, offers a Cooperative Engineering 3-2 program in cooperation with the University of Missouri

## Corporate Communication Major, B.S. Degree

2/2007

This is the recommended program of study for the Corporate Communication Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Communication for further information or guidance.

**Corporate Communication Major, B.S. Degree - 1 24 hours**

- During the last semester of the senior year, all graduates must submit a portfolio following the internship and complete a knowledge exam. See department adviser for requirements.
- The plan is based on a 21-hour minor.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.





## Crisis and Disaster Management, B. S. Degree

2/2007

This is the recommended program of study for the Crisis and Disaster Management Bachelor of Science Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Safety Sciences for further information or guidance.

Freshman Year - First Semester  
**ENGL 1020 Composition I**  
 General Education

## Crisis and Disaster Management, B.S. Degree – 124 hrs

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*SAFE 4950 and SAFE 4960 can be taken any semester after sophomore year.
- \*\*\*This plan is based on an 18-hour minor. The number of free choice electives will depend on the hours required in the chosen major.
- SAFE 4980 is a practicum in CDM that can be taken for 3-6 hours.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.





**Earth Science Functional Major, B.S. in Ed. Degree**

2/2007

This is the recommended program of study for the Earth Science Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Biology and Earth Science for further information or guidance.

**Earth Science Functional Major, B.S. in Ed. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Please see catalog for Ud eor

entr C





## Electronics Engineering Technology Functional Major, B.S. Degree

2/2007

This is the recommended program of study for the Electronics Engineering Technology Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Industrial Technology for further information or guidance.

## Freshman Year - First Semester

ET 1026 DC Circuit Analysis\*

ET 1050 Digital Principles &amp; Applications\*

## Electronics Engineering Technology Functional Major, B.S. Degree - 124 hours

- \*Course ONLY available semester indicated.
- \*\*Course(s) may be available summer semesters.
- \*\*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.





Electronics Technology Functional Major B.S. Degree

2/2007

**Computer/Networking Technology Area**

This is the recommended program of study for the Electronics Technology Major (Computer/Networking Technology Area), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the School of Technology for further information or guidance.

| Freshman Year - First Semester             | Hrs.  | Freshman Year - Second Semester     | Hrs. |
|--|-------|-------------------------------------|------|
| ET 1026 DC Circuit Analysis                | 4     | ET 1027 AC Circuit Analysis*        | 4    |
| ET 1050 Digital Principles & Applications* | 4     | ET 2048 Active Electronic Devices*  | 4    |
| MATH 1111 College Algebra**                | 3     | ENGL 1030 Composition II **         | 3    |
| ENGL 1020 Composition I **                 | 3     | NET 2058 Computer Technologies      | 3    |
| Additional General Studies Course**        | 0-3   | Additional General Studies Course** | 3    |
| Semester Total                             | 14-17 | Semester Total                      | 17   |

**Sophomore Year - First Semester**

ET 2060 Microprocessors\*  
 NET 1060 Introduction to b690h.289073(C)-Plans

**Electronics Technology Functional Major (Computer/Networking Technology Area)  
 B.S. Degree - Minimum 124 hours required**

- \*Course ONLY available semester indicated.
- \*\*General Studies Courses MUST meet catalog requirements.
- For this program 40 credit hours must be 3000-4000 Level.
- Total number of Departmentally Approved Electives is 12.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



|  | Hrs. |
|--|------|
| Freshman Year - First Semester                                     |      |
| ENGL 1020 Composition I  |      |
| COMM 1000 Public Speaking  |      |
| POLS 1510 American Government                                      |      |
| ART 1800 Ideas & the Visual Arts or<br>MUS 1210 Experiencing Music |      |
| Modern Language: Chin., Fren., Ger. or Span.                       |      |
| Semester Total   |      |
| AE 1400 Freshman Seminar*  |      |





**Engineering Technology Major (Electronics Engineering Option) B.S. Degree**

1/2006

This is the recommended program of study for the Engineering Technology Major (Electronics Engineering Option), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the School of Technology for further information or guidance.

Freshman Year - First Semester

**Engineering Technology Major (Electronics Engineering Option) B.S. Degree - 133 hours**

- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in bold italics.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.



English Major, B.A. Degree

2/2007

This is the recommended program of study for the English Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective University of Central Missouri students should contact the Department of English and Philosophy for further information or guidance.

Freshman Year - First Semester

ENGL(\*)-0.195683(0.195683(0.x3c0.1956837-0.22148652(l)0.290(S)-0.0.2893(grn)-.1988(r)-0.29963(cti.1942790.10975(

English Major, B.A. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- \*\*See the Undergraduate Catalog for the choices that fulfill this requirement.
- \*\*\*Refer to the Bachelor's Degree Requirements section of the catalog for the BA Modern Language requirements. This plan is based on 6 hours of modern language and 3 hours of ENGL 2220 World Masterpieces.
- This plan is based on a 21-hour minor.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.









## Finance Functional Major, B.S.B.A. Degree

2/2007

This is the recommended program of study for the Finance Functional Major, B.S.B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Economics and Finance for further information or guidance.

## Finance Major, B.S.B.A. Degree - 124 Hours

- A minimum 15-hour block of General Education in Math, Written Communication, History or Political Science, and Science must be completed in the first three semesters (45 hours) to take the College BASE exam for General Education Assessment. These courses are designated in **bold italics**. Passing of the C-BASE exam is required for admission to the B.S.B.A. program.
- \*Students in this major must complete eight preadmission courses, with a 2.25 cumulative GPA and a 2.25 in these specific courses, before admission to the degree program. These courses are recommended for completion during the freshman and sophomore years, and are indicated on the plan with an (\*).
- \*\*AE 1400 (1 hr.) is highly recommended for academic success. AE 1400 counts as a free choice, non-business elective.
- \*\*\*Finance electives are: FIN 3835, FIN 4803, FIN 4804, FIN 4815, FIN 4817, FIN 4820, FIN 4862, FIN 4880. FIN 4830 may be available as an elective with department chair approval. Electives are not offered every semester – check with the department.
- A minimum grade of C must be earned in FIN 3850, FIN 3861, FIN 3881, and FIN 3891 if they

This is the recommended program of study for the French Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

**French Major, B.A. Degree - 124 hours**  
(118 hours taken on campus plus six hours of "validated credit" or "dual credit".)

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives.
- Credits for French 1201 (Elementary French I) and French 1202 (Elementary French II):  
If you received college credit for these classes while in high school (dual credit), these credits will be applied to the major sequence. If not, you will receive credit for these classes by completing French 2201 with a grade of "C" or higher (validated credit program).
- This plan is based on a 27-hour minor. Number of free choice electives needed depends on choice of minor.
- A 15-hour block of General Education courses in **Math, Written Communication, History or Political Science, and Science** must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.

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French Major, B.S. Degree

2/2007

This is the recommended program of study for the French Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

**French Major, B.S. Degree - 124 hours**  
(118 hours taken on campus plus 6 hours of "validated credit" or "dual credit".)

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1

French Education Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the French Education Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.

General Recreation Major, B.S. Degree

2/2007

This is the recommended program of study for the General Recreation Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Mi





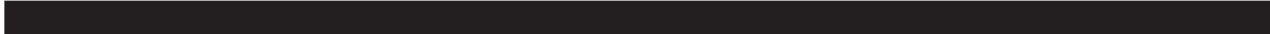
Geography Major, B.S. Degree

2/2007

This is the recommended program of study for the Geography Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Political Science and Geography for further information or guidance.

Geology Functional Major, B.S. Degree

2/2007



This is the recommended program of study for the Geology Functional Major,





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Hotel and Restaurant Administration Functional Major, B.S. Degree

2/2007



This is the recommended program of study for the Hotel and Restaurant Administration Functional Major, B.S. Degree

Industrial Technology, B.S. Degree

2/2007

This is the recommended program of study for the Industrial Technology, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the School of Technology for further information or guidance.

|   |      |   |         |
|---|------|---|---------|
| Freshman Year - First Semester                                | Hrs. | Freshman Year - Second Semester           | Hrs.    |
| GRAP 1110 Fundamentals of Drafting                            | 3    | ET 1050 Digital Principles & Applications | 4       |
| ET 1010 Applied Electronics or<br>ET 1020 General Electronics | 3    | PR&T 1010 Power Mechanics                 | 3       |
| <b>General Education Math</b>                                 | 3    | <b>ENGL 1030 Composition II</b>           | 3       |
| <b>ENGL 1020 Composition I</b>                                | 3    | <b>General Education Science</b>          | 3       |
| General Education   | 3    | General Education                         | 3       |
| Semester Total  | 15   | Semester Total                            | Hrs. 16 |
| AE 1400 Freshman Seminar*                                     |      |   |         |

|                                       |                |                   |
|---------------------------------------|----------------|-------------------|
| Sophomore Year - First Semester       | Hrs.           | General Education |
| ACCT 2100 Survey of Accounting        | Semester Total |                   |
| MMGT 2530 Machine Tool Technology     |                |                   |
| <b>HIST 1350 or 1351 or POLS 1510</b> |                |                   |
| General Education                     |                |                   |
| Semester Total                        |                |                   |

Industrial Technology, B.S. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Forty hours of upper level credit must be earned to meet graduation requirements. Of the 33 hours of minor requirements, major electives, and free choice electives, at least 27 must be upper-level course work.
- \*\*\*The above plan is based on a 21-hour minor. The number of free choice electives will vary based on minor chosen.
- A minimum 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.







Freshman Year - First Semester  
ART 1110 Drawing I  
ART 1315 Design I  
ENGL 1020 Composition I  
GRAP 1110 Fundamentals of Drafting  
General Education Math  
Semester Total







Mathematics Major, B.A. Degree

2/2007





Mathematics Functional Major, B.S. in Ed. Degree









This is a recommended program of study for the Middle School Education (Grades 5-9) Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Curriculum and Instruction for further information or guidance.

**Middle School Education Major, B.S. in Ed. Degree - 127 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Students selecting a math minor must contact the math adviser before taking MATH 3812.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- A teaching minor is an area of concentration for which UCM sponsors cer

Music Major, B.A. Degree

2/2007

This is the recommended program of study for the Music Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Music for further information or guidance.

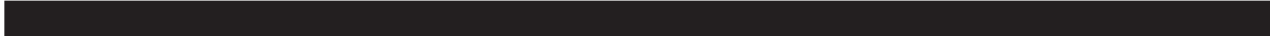
|   |             |   |             |
|---|-------------|---|-------------|
| <b>Freshman Year - First Semester</b>           | <b>Hrs.</b> | <b>Freshman Year - Second Semester</b>  | <b>Hrs.</b> |
| MUS 1000 Recital Attendance                     | 0           | MUS 1000 Recital Attendance             | 0           |
| MUS 1100 Fund. of Music or Free Choice Elective | 3           | Major Large Ensemble                    | 1           |
| Major Large Ensemble                            | 1           | Major Instrument or Voice, 1000 Level   | 1           |
| Major Instrument or Voice, 1000 Level           | 1           | MUS 1111 Theory I                       | 3           |
| ENGL 1020 Composition I                         | 3           | MUS 1121 Aural Training I               | 1           |
| MUS 1225 Music of the World's Cultures          | 3           | ENGL 1030 Composition II                | 3           |
| Modern Language Requirement**                   | 3           | General Education Math                  | 3           |
| Semester Total                                  | 14          | Modern Language Requirement**           | 3           |
| AE 1400 Freshman Seminar*                       |             | Semester Total                          | 15          |
| <br>  |             |   |             |
| <b>Sophomore Year - First Semester</b>          | <b>Hrs.</b> | <b>Sophomore Year - Second Semester</b> | <b>Hrs.</b> |
| MUS 1000 Recital Attendance                     | 0           | MUS 1000 Recital Attendance             | 0           |
| Major Instrument or Voice, 1000 Level           | 1           | Major Instrument or Voice, 1000 Level   | 1           |
| MUS 1112 Theory II                              | 3           | MUS 2111 Theory III                     | 3           |
| MUS 1122 Aural Training II                      | 1           | MUS 2121 Aural Training III             | 1           |
| MUS 2221 Intro. to Music Lit. I                 | 2           | MUS 2222 Intro. to Music Lit. II        | 2           |
| HIST 1350 or 1351 or POLS 1510                  | 3           | General Education Science               | 3-4         |
| General Education                               | 3           | Course in Minor                         | 3           |
| Modern Language Requirement**                   | 3           | General Education                       | 3           |
| Semester Total                                  | 16          | Semester Total                          | 16-17       |
| <br>  |             |   |             |
| <b>Junior Year - First Semester</b>             | <b>Hrs.</b> | <b>Junior Year - Second Semester</b>    | <b>Hrs.</b> |
| MUS 1000 Recital Attendance                     | 0           | MUS 1000 Recital Attendance             | 0           |
| Major Instrument or Voice, 3000 Level           | 1.5         | Major Instrument or Voice, 3000 Level   | 1.5         |
| MUS 3211 Music History to 1800                  | 3           | MUS 3212 Music History 1800-Present     | 3           |
| General Education                               | 6           | General Education                       | 5-6         |
| Courses in Minor                                | 6           | Courses in Minor                        | 6           |
| Semester Total                                  | 16.5        | Semester Total                          | 15.5-16.5   |
| <br>  |             |   |             |
| <b>Senior Year - First Semester</b>             | <b>Hrs.</b> | <b>Senior Year - Second Semester</b>    | <b>Hrs.</b> |
| Major Instrument or Voice, 3000 Level           | 1.5         | Major Instrument or Voice, 3000 Level   | 1.5         |
| Elective in Music                               | 3           | Course in Minor                         | 3           |
| Course in Minor                                 | 3           | General Education                       | 3           |
| General Education                               | 3           | Free Choice Elective                    | 7           |
| Free Choice Elective                            | 5           | Semester Total                          | 14.5        |
| Semester Total                                  | 15.5        |   |             |

Music Major, B.A. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on two modern language courses and ENGL 2220 for General Education Literature.

Music Functional Major, B.M. Degree

2/2007



This is the recommended program of study for the Music Functional Major,









**B.S. Occupational Education Functional Major**

2/2007

This is the recommended program of study for the B.S. Occupational Education Functional Major Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career and Technology Education for further information or guidance.

|                                    |      |   |       |                   |
|------------------------------------|------|---|-------|-------------------|
|                                    |      |   | Hres. |                   |
|                                    |      |   | 3     | Thomr chear - Fir |
| Freshman Year - First Semester     | Hrs. | Freshman Year - Second Semester                               |       |                   |
| MATH 1111 College Algebra or       | 3    | SPCM 1000 Public Speaking                                     |       |                   |
| MATH 1620 Contemporary Math or     |      | T&OE 3060 Technical Report Writing                            |       |                   |
| MATH 1159 Pre-Calculus Mathematics |      | EDCL 2240 Educational Psychology                              |       |                   |
| T&OE 2000 Technology and Change    | 3    | HIST 1350 or 1351 U.S. History or                             |       |                   |
| ENGL 1020 Compostition I           | 3    | POLS 1510 American Govern(I)0.414063(7219(t)-0( )70)0.677721( |       |                   |
| General Teaching Specialty Area    | 3    |   |       |                   |
| Gen. Ed. Personal Interaction      | 3    |   |       |                   |
| Semester Total                     | 15   |   |       |                   |

**B.S. Occupational Education Major - 124 hours**

- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.





Physical Education Functional Major (Corporate Fitness), B.S. Degree

2/2007

This is the recommended program of study for the Physical Education Functional Major (Corporate Fitness), B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students

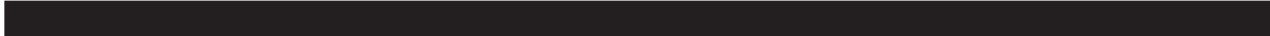


2/2007

This is the recommended program of study for the Physical Education (K - 12 Education) Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Health and Human Performance for further

Physics Functional Major, B.A. Degree

2/2007



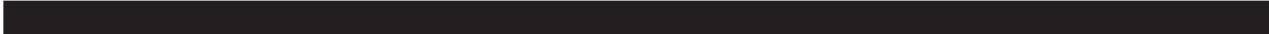
This is the recommended program of study for the Physics Functional Major,

This is the recommended program of study for the Physics Functional Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Chemistry and Physics for further information or guidance.

### Physics Functional Major, B.S. Degree - 124 hours

- \*Students whose high school preparation is inadequate should take PHYS 1101 during their first year at Central Missouri.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*\*Departmentally approved electives can be selected from the following courses: PHYS 2020, PHYS 3611, PHYS 4512, PHYS 4513, PHYS 4711.
- \*\*\*\*For those considering graduate school in physics, the department strongly recommends that most free electives be Physics/Math/Computer Science/Chemistry courses.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Pla





Political Science Major, B.A. Degree

2/2007

This is the recommended program of study for the Political Science Major,

This is the recommended program of study for the Political Science Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Political Science and Geography for further information or guidance.

**Political Science Major, B.S. Degree – 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- This plan is based on a 21-hour minor.

## Psychology Major, B.A. Degree

1/2006

This is the recommended program of study for the Psychology Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Psychology for further information or guidance.

**Psychology Major, B.A. Degree - 124 hours**

- \*Refer to the Bachelor's Degree Requirements section in the catalog for the B.A. Modern Language requirement. This plan is based on three modern language courses.
- \*\*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- The above degree plan is based on a 21-hour minor.

**Psychology Major, B.S. Degree**

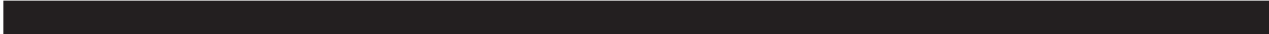
1/2006

This is the recommended program of study for the Psychology Major, B.S. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Psychology for further information or guidance.

**Psychology Major, B.S. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1





Social Studies Functional Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the Social Studies Functional Major, B.S. in Education Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of History and Anthropology for further information or guidance.

Social Studies Functional Major, B.S. in Ed. Degree - 124 hours

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- \*\*Students choose upper-level electives from at least two of the following prefixes: GEOG, HIST, POLS, SOC, ANTH, or ECON.
- \*\*\*If selected, HIST 2402 will fulfill 3 hours of General Education Division II Area D.
- \*\*\*\*See catalog for a list of History classes to fulfill the upper-level history requirement.



This is the recommended program of study for the Social Work Functional Major, B.S.W. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Sociology and Social Work for further information or guidance.

**Social Work Functional Major, B.S.W. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in

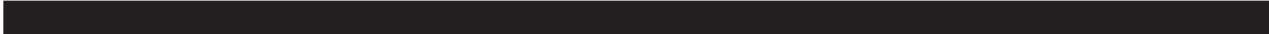
Sociology Major, B.A. Degree

2/2007

This is the recommended program of study for the Sociology Major, B.A. Degree at the University of Central Missouri.

Sociology Major, B.S. Degree

2/2007



Spanish Major, B.A. Degree

2/2007

This is the recommended program of study for the Spanish Major, B.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Modern Languages for further information or guidance.







Special Education: Mild/Moderate Cross Categorical Disabi





Special Education: Severe Developmental Disabilities Major, B.S. in Ed. Degree

2/2007

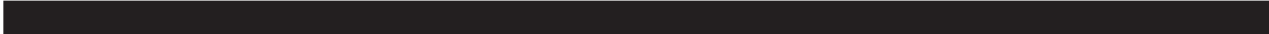
This is the recommended program of study for the Special Education: Severe Developmental Disabilities Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students



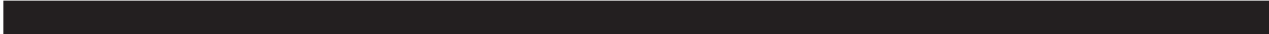




Speech Communication and Theatre Major - Theatre Option,





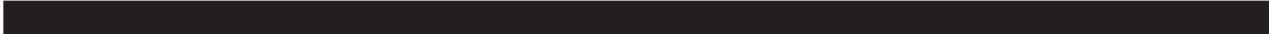


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Theatre Major, B.A. Degree

2/2007





Theatre Functional Major (Technical Option), B.F.A. Degree

2/2007

This is the recommended program of study for the Theatre Functional Major (Technical Option), B.F.A. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Theatre for further information or guidance.

**Theatre Functional Major (Technical Option), B.F.A. Degree - 124 hours**

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective, however, this program does not require free choice electives



This is the recommended program of study for the Vocational Agriculture Education Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective UCM students should contact the Department of Career and Technology Education for further information or guidance.

**Vocational Agriculture Education Functional Major, B.S. in Ed. Degree - 128 hours**

- \*AGRI 4900 is only offered in fall semesters AND is the prerequisite to AGRI 4910, 4920, 4930 and 4940.
- \*\*AGRI 4910, 4920, 4930, and 4940 are only offered in spring semesters AND their prerequisite is AGRI 4900.
- Courses designated below are highly recommended electives. Taking these courses will increase the total hours in the program: AGRI 4200 Adv. Ag. Mechanics (Lab); AGRI 242

Vocational Family and Consumer Sciences Functional Major, B.S. in Ed. Degree

2/2007

This is the recommended program of study for the Vocational Family and Consumer Sciences Functional Major, B.S. in Ed. Degree at the University of Central Missouri. Your schedule may vary. Current or prospective Central Missouri students should contact the Department of Career and Technology Education for further information or guidance.

| Freshman Year - First Semester                   | Hrs.      | Freshman Year - Second Semester                | Hrs.      |
|--|-----------|--|-----------|
| CFD 1010 Individual & Family Relationships       | 3         | CFD 3260 Practicum in Child Development        | 1         |
| CFD 1220 Child Development                       | 3         | <b>ENGL 1030 Composition II</b>                | 3         |
| <b>General Education Math</b>                    | 3         | <b>CHEM 1104 Intro. to Sciences: Chemistry</b> | 4         |
| <b>ENGL 1020 Composition I</b>                   | 3         | <b>POLS 1510 American Government</b>           | 3         |
| CTE 1000 Intro. to Career & Technology Education | 3         | General Education                              | 6         |
| Free Choice Elective                             | 1         | <b>Semester Total</b>                          | <b>17</b> |
| <b>Semester Total</b>                            | <b>16</b> |  |           |
| AE 1400 Freshman Seminar*                        |           |  |           |

Sophomore Year - First Semester

CTE 3110 Financial Management Education

F n1(T)0..290075(I)0..48734(3)-0.224813(.)363.7789(0)-0.259749(0)-0.259789(-)-34.4414(F)-0.23106(du)-0.183594(ca)-0.41211(ti)0.4  
17

Vocational Family and Consumer Science Major, B.S. in Ed. Degree – 124 hrs

- \*AE 1400 (1 hr) is highly recommended for academic success. AE 1400 is a free choice elective.
- Certification to teach vocational family and consumer sciences from birth to grade 12.
- A 15-hour block of General Education courses in Math, Written Communication, History or Political Science, and Science must be completed in the first four semesters to prepare for the C-BASE exam. These courses are indicated on the plan in **bold italics**.
- See the current catalog for complete statement of academic policies, leveling, and prerequisites.
- Time to degree and course sequencing will be dependent upon Planned Placement in math, reading and writing.









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